



Full Power Mode&Default Power

| GSMB01_Ant 0    | Band Average Power (dBm) |       |       |       | Frame Average Power (dBm) |       |       |       |
|-----------------|--------------------------|-------|-------|-------|---------------------------|-------|-------|-------|
|                 | TX Channel               | 500.2 | 500.4 | 500.6 | 500.2                     | 500.4 | 500.6 | 500.8 |
| Frequency (MHz) |                          | 500.2 | 500.4 | 500.6 | 500.2                     | 500.4 | 500.6 | 500.8 |
| GSMB 1 Tx ant   |                          | 30.20 | 30.11 | 30.23 | 30.30                     | 29.20 | 29.11 | 29.23 |
| GSMB 1 Tx ant   |                          | 30.20 | 30.11 | 30.23 | 30.30                     | 29.20 | 29.11 | 29.23 |
| GSMB 2 Tx ant   |                          | 30.20 | 30.11 | 30.23 | 30.30                     | 29.20 | 29.11 | 29.23 |
| GSMB 3 Tx ant   |                          | 30.20 | 30.11 | 30.23 | 30.30                     | 29.20 | 29.11 | 29.23 |
| GSMB 4 Tx ant   |                          | 30.20 | 30.11 | 30.23 | 30.30                     | 29.20 | 29.11 | 29.23 |
| EDGE 1 Tx ant   |                          | 29.80 | 29.70 | 29.82 | 29.90                     | 28.70 | 28.60 | 28.72 |
| EDGE 2 Tx ant   |                          | 29.80 | 29.70 | 29.82 | 29.90                     | 28.70 | 28.60 | 28.72 |
| EDGE 3 Tx ant   |                          | 29.80 | 29.70 | 29.82 | 29.90                     | 28.70 | 28.60 | 28.72 |
| EDGE 4 Tx ant   |                          | 29.80 | 29.70 | 29.82 | 29.90                     | 28.70 | 28.60 | 28.72 |

| GSMB1000_Ant 1  | Band Average Power (dBm) |       |       |                | Frame Average Power (dBm) |       |       |                |
|-----------------|--------------------------|-------|-------|----------------|---------------------------|-------|-------|----------------|
| TX Channel      | 512                      | 601   | 610   | TX Power Limit | 512                       | 601   | 610   | TX Power Limit |
| Frequency (MHz) | 5120                     | 6010  | 6100  | 100.0          | 5120                      | 6010  | 6100  | 100.0          |
| GSMB 1 Tx ant   | 28.80                    | 28.80 | 28.80 | 20.00          | 19.88                     | 19.88 | 19.88 | 21.50          |
| GSMB 2 Tx ant   | 28.80                    | 28.80 | 28.80 | 20.00          | 19.88                     | 19.88 | 19.88 | 21.50          |
| GSMB 3 Tx ant   | 28.80                    | 28.72 | 28.50 | 27.00          | 20.52                     | 20.71 | 20.83 | 21.50          |
| GSMB 4 Tx ant   | 24.00                    | 24.74 | 24.70 | 20.00          | 20.30                     | 20.68 | 20.44 | 22.24          |
| GSMB 5 Tx ant   | 22.68                    | 22.80 | 22.54 | 24.00          | 19.68                     | 19.88 | 19.54 | 21.50          |
| EDGE 1 Tx ant   | 24.00                    | 23.20 | 24.50 | 20.00          | 19.80                     | 19.20 | 19.70 | 19.00          |
| EDGE 2 Tx ant   | 24.50                    | 24.50 | 24.47 | 20.50          | 17.25                     | 17.50 | 17.44 | 18.00          |
| EDGE 3 Tx ant   | 21.90                    | 21.90 | 21.90 | 20.00          | 17.89                     | 17.87 | 17.64 | 19.00          |
| EDGE 4 Tx ant   | 20.20                    | 20.27 | 20.14 | 20.00          | 17.07                     | 17.27 | 17.14 | 18.00          |

| Band            | WCDMA_V_Ant 1      |        |        |        | WCDMA_V_Ant 2 |        |        |        |
|-----------------|--------------------|--------|--------|--------|---------------|--------|--------|--------|
|                 | TX Channel         | 5002   | 5002   | 5008   | 5002          | 5002   | 5008   | 5008   |
| Frequency (MHz) |                    | 5002.4 | 5002.4 | 5008.6 | 5002.4        | 5002.4 | 5008.6 | 5008.6 |
| SCPP Rel 00     | AMR 12.2kpa        | 23.06  | 23.01  | 23.01  | 23.00         | 24.16  | 24.16  | 23.00  |
| SCPP Rel 00     | PMSC 12.2kpa       | 23.06  | 23.06  | 23.06  | 24.21         | 24.16  | 24.16  | 23.00  |
| SCPP Rel 01     | HSDPA Subband-1    | 23.03  | 23.00  | 23.00  | 23.03         | 23.00  | 23.03  | 23.00  |
| SCPP Rel 01     | HSDPA Subband-2    | 23.06  | 23.00  | 23.00  | 23.07         | 23.03  | 23.06  | 23.00  |
| SCPP Rel 01     | HSDPA Subband-3    | 23.06  | 23.00  | 23.00  | 23.07         | 23.03  | 23.06  | 23.00  |
| SCPP Rel 01     | HSDPA Subband-4    | 23.06  | 23.00  | 23.00  | 23.07         | 23.03  | 23.06  | 23.00  |
| SCPP Rel 01     | DC-HSDPA Subband-1 | 23.06  | 23.00  | 23.00  | 23.06         | 23.03  | 23.01  | 23.00  |
| SCPP Rel 01     | DC-HSDPA Subband-2 | 23.06  | 23.00  | 23.00  | 23.06         | 23.03  | 23.03  | 23.00  |
| SCPP Rel 01     | DC-HSDPA Subband-3 | 23.14  | 23.06  | 23.06  | 23.06         | 23.07  | 23.01  | 23.00  |
| SCPP Rel 01     | DC-HSDPA Subband-4 | 23.15  | 23.06  | 23.06  | 23.17         | 23.07  | 23.04  | 23.00  |
| SCPP Rel 01     | HSPA Subband-1     | 23.07  | 23.06  | 23.06  | 23.03         | 23.00  | 23.02  | 23.00  |
| SCPP Rel 01     | HSPA Subband-2     | 23.07  | 23.06  | 23.06  | 23.07         | 23.06  | 23.01  | 23.00  |
| SCPP Rel 01     | HSPA Subband-3     | 23.03  | 23.07  | 23.06  | 23.06         | 23.07  | 23.04  | 23.00  |
| SCPP Rel 01     | HSPA Subband-4     | 23.07  | 23.06  | 23.06  | 23.06         | 23.07  | 23.01  | 23.00  |
| SCPP Rel 01     | HSPA Subband-5     | 23.00  | 23.00  | 23.00  | 23.00         | 23.00  | 23.00  | 23.00  |

| Band            | WCDMA_V_Ant 3      |        |        |        | WCDMA_V_Ant 4 |        |        |        |
|-----------------|--------------------|--------|--------|--------|---------------|--------|--------|--------|
|                 | TX Channel         | 4102   | 4102   | 4202   | 4102          | 4102   | 4202   | 4202   |
| Frequency (MHz) |                    | 4102.4 | 4102.4 | 4202.6 | 4102.4        | 4102.4 | 4202.6 | 4202.6 |
| SCPP Rel 00     | AMR 12.2kpa        | 24.49  | 24.31  | 24.30  | 24.30         | 24.30  | 24.37  | 24.30  |
| SCPP Rel 00     | PMSC 12.2kpa       | 24.41  | 24.30  | 24.30  | 24.30         | 24.30  | 24.30  | 24.30  |
| SCPP Rel 01     | HSDPA Subband-1    | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | HSDPA Subband-2    | 23.46  | 23.20  | 23.20  | 23.33         | 23.47  | 23.30  | 23.20  |
| SCPP Rel 01     | HSDPA Subband-3    | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | HSDPA Subband-4    | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | DC-HSDPA Subband-1 | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | DC-HSDPA Subband-2 | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | DC-HSDPA Subband-3 | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | DC-HSDPA Subband-4 | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | HSPA Subband-1     | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | HSPA Subband-2     | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | HSPA Subband-3     | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | HSPA Subband-4     | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |
| SCPP Rel 01     | HSPA Subband-5     | 23.41  | 23.20  | 23.20  | 23.41         | 23.20  | 23.20  | 23.20  |

| GSMB01_Ant 1    | Band Average Power (dBm) |       |       |       | Frame Average Power (dBm) |       |       |       |
|-----------------|--------------------------|-------|-------|-------|---------------------------|-------|-------|-------|
|                 | TX Channel               | 500.2 | 500.4 | 500.6 | 500.2                     | 500.4 | 500.6 | 500.8 |
| Frequency (MHz) |                          | 500.2 | 500.4 | 500.6 | 500.2                     | 500.4 | 500.6 | 500.8 |
| GSMB 1 Tx ant   |                          | 30.30 | 30.40 | 30.05 | 30.30                     | 30.30 | 29.40 | 24.05 |
| GSMB 1 Tx ant   |                          | 30.30 | 30.40 | 30.05 | 30.30                     | 30.30 | 29.40 | 24.05 |
| GSMB 2 Tx ant   |                          | 30.30 | 30.30 | 30.24 | 30.30                     | 30.30 | 28.30 | 24.24 |
| GSMB 3 Tx ant   |                          | 30.30 | 30.30 | 30.24 | 30.30                     | 30.30 | 28.30 | 24.24 |
| GSMB 4 Tx ant   |                          | 30.30 | 30.30 | 30.24 | 30.30                     | 30.30 | 28.30 | 24.24 |
| EDGE 1 Tx ant   |                          | 29.60 | 29.60 | 27.20 | 27.60                     | 27.60 | 24.20 | 18.60 |
| EDGE 2 Tx ant   |                          | 29.60 | 29.60 | 27.20 | 27.60                     | 27.60 | 24.20 | 18.60 |
| EDGE 3 Tx ant   |                          | 29.60 | 29.60 | 27.20 | 27.60                     | 27.60 | 24.20 | 18.60 |
| EDGE 4 Tx ant   |                          | 29.60 | 29.60 | 27.20 | 27.60                     | 27.60 | 24.20 | 18.60 |

| GSMB1000_Ant 2  | Band Average Power (dBm) |        |        |        | Frame Average Power (dBm) |        |        |       |
|-----------------|--------------------------|--------|--------|--------|---------------------------|--------|--------|-------|
|                 | TX Channel               | 512    | 601    | 610    | TX Channel                | 512    | 601    | 610   |
| Frequency (MHz) |                          | 102.52 | 102.50 | 102.48 | 102.52                    | 102.50 | 102.48 |       |
| GSMB 1 Tx ant   |                          | 30.24  | 30.37  | 30.03  | 30.30                     | 31.27  | 30.03  | 21.50 |
| GSMB 1 Tx ant   |                          | 30.24  | 30.28  | 30.25  | 30.30                     | 31.22  | 30.01  | 21.50 |
| GSMB 2 Tx ant   |                          | 28.89  | 28.11  | 27.71  | 28.20                     | 29.29  | 22.11  | 21.71 |
| GSMB 3 Tx ant   |                          | 26.03  | 26.15  | 25.94  | 26.50                     | 27.77  | 21.64  | 21.88 |
| GSMB 4 Tx ant   |                          | 24.15  | 24.53  | 23.67  | 25.35                     | 25.15  | 21.53  | 20.67 |
| EDGE 1 Tx ant   |                          | 28.89  | 28.20  | 28.07  | 28.50                     | 29.28  | 19.28  | 18.97 |
| EDGE 2 Tx ant   |                          | 24.15  | 24.14  | 24.71  | 25.50                     | 24.50  | 19.30  | 18.71 |
| EDGE 3 Tx ant   |                          | 23.48  | 23.58  | 22.39  | 24.00                     | 19.20  | 18.20  | 18.73 |
| EDGE 4 Tx ant   |                          | 21.80  | 21.82  | 21.30  | 22.00                     | 18.80  | 18.30  | 18.54 |

| Band            | WCDMA_V_Ant 1      |        |        |        | WCDMA_V_Ant 2 |        |        |        |
|-----------------|--------------------|--------|--------|--------|---------------|--------|--------|--------|
|                 | TX Channel         | 1012   | 1412   | 1013   | 1012          | 1412   | 1013   | 1013   |
| Frequency (MHz) |                    | 1012.4 | 1412.6 | 1013.6 | 1012.4        | 1412.6 | 1013.6 | 1013.6 |
| SCPP Rel 00     | AMR 12.2kpa        | 23.07  | 23.70  | 23.07  | 23.00         | 24.23  | 24.41  | 23.00  |
| SCPP Rel 00     | PMSC 12.2kpa       | 23.00  | 23.72  | 23.70  | 23.00         | 24.20  | 24.42  | 23.00  |
| SCPP Rel 01     | HSDPA Subband-1    | 23.06  | 23.70  | 23.71  | 23.00         | 23.24  | 23.40  | 23.00  |
| SCPP Rel 01     | HSDPA Subband-2    | 23.49  | 23.70  | 23.73  | 23.00         | 23.22  | 23.41  | 23.00  |
| SCPP Rel 01     | HSDPA Subband-3    | 23.07  | 23.20  | 23.17  | 23.00         | 23.23  | 23.00  | 23.00  |
| SCPP Rel 01     | HSDPA Subband-4    | 23.09  | 23.20  | 23.20  | 23.00         | 23.00  | 23.00  | 23.00  |
| SCPP Rel 01     | DC-HSDPA Subband-1 | 23.07  | 23.04  | 23.06  | 23.00         | 23.14  | 23.37  | 23.00  |
| SCPP Rel 01     | DC-HSDPA Subband-2 | 23.07  | 23.40  | 23.43  | 23.00         | 23.11  | 23.30  | 23.00  |
| SCPP Rel 01     | DC-HSDPA Subband-3 | 23.07  | 23.10  | 23.03  | 23.00         | 23.02  | 23.10  | 23.00  |
| SCPP Rel 01     | DC-HSDPA Subband-4 | 23.09  | 23.00  | 23.00  | 23.00         | 23.40  | 23.40  | 23.00  |
| SCPP Rel 01     | HSPA Subband-1     | 23.03  | 23.62  | 23.70  | 23.00         | 23.00  | 23.41  | 23.00  |
| SCPP Rel 01     | HSPA Subband-2     | 23.01  | 23.70  | 23.68  | 23.00         | 23.22  | 23.40  | 23.00  |
| SCPP Rel 01     | HSPA Subband-3     | 23.06  | 23.73  | 23.70  | 23.00         | 23.22  | 23.40  | 23.00  |
| SCPP Rel 01     | HSPA Subband-4     | 23.04  | 23.70  | 23.70  | 23.00         | 23.21  | 23.40  | 23.00  |
| SCPP Rel 01     | HSPA Subband-5     | 23.00  | 23.60  | 23.70  | 23.00         | 23.20  | 23.40  | 23.00  |



| Band 2_Ant 1    |            |         |           |                            |                             |                             |               |            |  |  |
|-----------------|------------|---------|-----------|----------------------------|-----------------------------|-----------------------------|---------------|------------|--|--|
| RF [MHz]        | Modulation | RB Size | RF Offset | Power Low Freq. [Ch/Freq.] | Power High Freq. [Ch/Freq.] | Power High Freq. [Ch/Freq.] | Turn-on (sec) | Light (dB) |  |  |
| Channel         |            |         |           |                            |                             |                             |               |            |  |  |
| Frequency (MHz) |            |         |           | 18900                      | 18900                       | 19100                       |               |            |  |  |
| 20              | QPSK       | 1       | 0         | 21.61                      | 21.76                       | 21.76                       |               |            |  |  |
| 20              | QPSK       | 1       | 46        | 21.68                      | 21.68                       | 21.68                       | 23            | 0          |  |  |
| 20              | QPSK       | 1       | 99        | 21.58                      | 21.64                       | 21.64                       |               |            |  |  |
| 20              | QPSK       | 50      | 0         | 21.53                      | 21.88                       | 21.44                       |               |            |  |  |
| 20              | QPSK       | 50      | 24        | 21.68                      | 21.68                       | 21.68                       | 23            | 0          |  |  |
| 20              | QPSK       | 50      | 50        | 21.61                      | 21.94                       | 21.59                       |               |            |  |  |
| 20              | QPSK       | 100     | 0         | 21.57                      | 21.57                       | 21.57                       |               |            |  |  |
| 20              | QPSK       | 1       | 0         | 21.76                      | 21.66                       | 21.61                       |               |            |  |  |
| 20              | QPSK       | 1       | 46        | 21.67                      | 21.67                       | 21.67                       | 23            | 0          |  |  |
| 20              | QPSK       | 1       | 99        | 21.70                      | 21.70                       | 21.69                       |               |            |  |  |
| 20              | QPSK       | 50      | 0         | 21.64                      | 21.62                       | 21.67                       |               |            |  |  |
| 20              | QPSK       | 50      | 24        | 21.64                      | 21.64                       | 21.64                       | 23            | 0          |  |  |
| 20              | QPSK       | 50      | 50        | 21.46                      | 21.67                       | 21.63                       |               |            |  |  |
| 20              | QPSK       | 100     | 0         | 21.80                      | 21.71                       | 21.52                       |               |            |  |  |
| 20              | QPSK       | 1       | 0         | 21.42                      | 21.68                       | 21.63                       |               |            |  |  |
| 20              | QPSK       | 1       | 46        | 21.67                      | 21.63                       | 21.63                       | 23            | 0          |  |  |
| 20              | QPSK       | 1       | 99        | 21.83                      | 21.68                       | 21.64                       |               |            |  |  |
| 20              | QPSK       | 50      | 0         | 21.60                      | 21.21                       | 21.50                       |               |            |  |  |
| 20              | QPSK       | 50      | 24        | 21.60                      | 21.60                       | 21.60                       | 22            | 1          |  |  |
| 20              | QPSK       | 50      | 50        | 21.38                      | 21.37                       | 21.18                       |               |            |  |  |
| 20              | QPSK       | 100     | 0         | 21.27                      | 21.59                       | 21.24                       |               |            |  |  |
| 20              | QPSK       | 1       | 0         | 17.72                      | 17.72                       | 17.72                       |               |            |  |  |
| 20              | QPSK       | 1       | 46        | 17.75                      | 17.97                       | 17.81                       | 19            |            |  |  |
| 20              | QPSK       | 1       | 99        | 17.73                      | 17.86                       | 17.81                       |               |            |  |  |
| 20              | QPSK       | 50      | 0         | 17.69                      | 17.79                       | 17.75                       |               |            |  |  |
| 20              | QPSK       | 50      | 24        | 17.70                      | 17.70                       | 17.70                       | 19            |            |  |  |
| 20              | QPSK       | 50      | 50        | 17.71                      | 17.73                       | 17.68                       |               |            |  |  |
| 20              | QPSK       | 100     | 0         | 17.69                      | 17.74                       | 17.65                       |               |            |  |  |
| Channel         |            |         |           |                            |                             |                             |               |            |  |  |
| Frequency (MHz) |            |         |           | 18970                      | 18970                       | 19020                       | Turn-on (sec) | Light (dB) |  |  |
| 15              | QPSK       | 1       | 0         | 21.53                      | 21.60                       | 21.53                       |               |            |  |  |
| 15              | QPSK       | 1       | 37        | 21.70                      | 21.65                       | 21.65                       | 23            | 0          |  |  |
| 15              | QPSK       | 1       | 74        | 21.62                      | 21.62                       | 21.62                       |               |            |  |  |
| 15              | QPSK       | 36      | 20        | 21.46                      | 21.79                       | 21.68                       |               |            |  |  |
| 15              | QPSK       | 36      | 36        | 21.41                      | 21.67                       | 21.67                       | 23            | 0          |  |  |
| 15              | QPSK       | 36      | 50        | 21.57                      | 21.57                       | 21.58                       |               |            |  |  |
| 15              | QPSK       | 1       | 0         | 21.84                      | 21.57                       | 21.68                       |               |            |  |  |
| 15              | QPSK       | 1       | 37        | 21.61                      | 21.51                       | 21.52                       | 23            | 0          |  |  |
| 15              | QPSK       | 1       | 74        | 21.46                      | 21.64                       | 21.62                       |               |            |  |  |
| 15              | QPSK       | 36      | 0         | 21.42                      | 21.55                       | 21.49                       |               |            |  |  |
| 15              | QPSK       | 36      | 20        | 21.38                      | 21.72                       | 21.45                       | 23            | 0          |  |  |
| 15              | QPSK       | 36      | 36        | 21.41                      | 21.58                       | 21.67                       |               |            |  |  |
| 15              | QPSK       | 36      | 50        | 21.58                      | 21.57                       | 21.58                       |               |            |  |  |
| 15              | QPSK       | 1       | 0         | 21.15                      | 21.45                       | 21.49                       |               |            |  |  |
| 15              | QPSK       | 1       | 37        | 21.54                      | 21.44                       | 21.79                       | 23            | 0          |  |  |
| 15              | QPSK       | 1       | 74        | 21.58                      | 21.57                       | 21.58                       |               |            |  |  |
| 15              | QPSK       | 36      | 0         | 21.01                      | 21.07                       | 21.00                       |               |            |  |  |
| 15              | QPSK       | 36      | 20        | 20.32                      | 21.22                       | 21.15                       | 22            | 1          |  |  |
| 15              | QPSK       | 36      | 36        | 20.26                      | 21.21                       | 21.31                       |               |            |  |  |
| 15              | QPSK       | 36      | 50        | 21.22                      | 21.16                       | 21.24                       |               |            |  |  |
| 15              | QPSK       | 1       | 0         | 17.78                      | 17.85                       | 17.69                       |               |            |  |  |
| 15              | QPSK       | 1       | 37        | 17.59                      | 17.61                       | 17.61                       | 19            | 4          |  |  |
| 15              | QPSK       | 1       | 74        | 17.66                      | 17.66                       | 17.66                       |               |            |  |  |
| 15              | QPSK       | 36      | 0         | 17.66                      | 17.66                       | 17.66                       |               |            |  |  |
| 15              | QPSK       | 36      | 20        | 17.75                      | 17.73                       | 17.71                       | 19            | 4          |  |  |
| 15              | QPSK       | 36      | 36        | 17.68                      | 17.68                       | 17.68                       |               |            |  |  |
| 15              | QPSK       | 75      | 0         | 17.69                      | 17.62                       | 17.64                       |               |            |  |  |
| Channel         |            |         |           |                            |                             |                             |               |            |  |  |
| Frequency (MHz) |            |         |           | 18950                      | 18950                       | 19100                       | Turn-on (sec) | Light (dB) |  |  |
| 10              | QPSK       | 1       | 0         | 21.69                      | 21.76                       | 21.69                       |               |            |  |  |
| 10              | QPSK       | 1       | 46        | 21.68                      | 21.68                       | 21.68                       | 23            | 0          |  |  |
| 10              | QPSK       | 1       | 74        | 21.68                      | 21.68                       | 21.68                       |               |            |  |  |
| 10              | QPSK       | 1       | 110       | 21.68                      | 21.68                       | 21.68                       |               |            |  |  |
| 10              | QPSK       | 36      | 20        | 21.46                      | 21.79                       | 21.68                       |               |            |  |  |
| 10              | QPSK       | 36      | 36        | 21.41                      | 21.67                       | 21.67                       |               |            |  |  |
| 10              | QPSK       | 36      | 50        | 21.58                      | 21.57                       | 21.58                       |               |            |  |  |
| 10              | QPSK       | 1       | 0         | 21.84                      | 21.57                       | 21.68                       |               |            |  |  |
| 10              | QPSK       | 1       | 37        | 21.61                      | 21.51                       | 21.52                       | 23            | 0          |  |  |
| 10              | QPSK       | 1       | 74        | 21.46                      | 21.64                       | 21.62                       |               |            |  |  |
| 10              | QPSK       | 1       | 110       | 21.42                      | 21.58                       | 21.61                       |               |            |  |  |
| 10              | QPSK       | 36      | 20        | 21.36                      | 21.72                       | 21.45                       | 23            | 0          |  |  |
| 10              | QPSK       | 36      | 36        | 21.41                      | 21.58                       | 21.67                       |               |            |  |  |
| 10              | QPSK       | 36      | 50        | 21.58                      | 21.57                       | 21.58                       |               |            |  |  |
| 10              | QPSK       | 1       | 0         | 21.15                      | 21.45                       | 21.55                       |               |            |  |  |
| 10              | QPSK       | 1       | 37        | 21.54                      | 21.44                       | 21.79                       | 23            | 0          |  |  |
| 10              | QPSK       | 1       | 74        | 21.58                      | 21.57                       | 21.58                       |               |            |  |  |
| 10              | QPSK       | 36      | 0         | 21.01                      | 21.07                       | 21.00                       |               |            |  |  |
| 10              | QPSK       | 36      | 20        | 20.32                      | 21.20                       | 21.29                       | 22            | 1          |  |  |
| 10              | QPSK       | 36      | 36        | 20.26                      | 21.21                       | 21.31                       |               |            |  |  |
| 10              | QPSK       | 36      | 50        | 21.22                      | 21.16                       | 21.24                       |               |            |  |  |
| 10              | QPSK       | 1       | 0         | 17.76                      | 17.86                       | 17.66                       |               |            |  |  |
| 10              | QPSK       | 1       | 37        | 17.59                      | 17.61                       | 17.61                       | 19            | 4          |  |  |
| 10              | QPSK       | 1       | 74        | 17.66                      | 17.66                       | 17.66                       |               |            |  |  |
| 10              | QPSK       | 36      | 0         | 17.66                      | 17.66                       | 17.66                       |               |            |  |  |
| 10              | QPSK       | 36      | 20        | 17.75                      | 17.73                       | 17.71                       |               |            |  |  |
| 10              | QPSK       | 36      | 36        | 17.68                      | 17.68                       | 17.68                       | 19            | 4          |  |  |
| 10              | QPSK       | 75      | 0         | 17.69                      | 17.62                       | 17.64                       |               |            |  |  |

| Band 2_Ant 2    |            |         |           |                            |                             |                             |               |            |  |  |
|-----------------|------------|---------|-----------|----------------------------|-----------------------------|-----------------------------|---------------|------------|--|--|
| RF [MHz]        | Modulation | RF Size | RF Offset | Power Low Freq. [Ch/Freq.] | Power High Freq. [Ch/Freq.] | Power High Freq. [Ch/Freq.] | Turn-on (sec) | Light (dB) |  |  |
| Channel         |            |         |           |                            |                             |                             |               |            |  |  |
| Frequency (MHz) |            |         |           | 18700                      | 18900                       | 19100                       |               |            |  |  |
| 20              | QPSK       | 1       | 0         | 22.81                      | 22.55                       | 22.69                       |               |            |  |  |
| 20              | QPSK       | 1       | 46        | 22.52                      | 22.17                       | 22.26                       | 24            | 0          |  |  |
| 20              | QPSK       | 1       | 99        | 22.77                      | 22.46                       | 22.76                       |               |            |  |  |
| 20              | QPSK       | 50      | 0         | 22.69                      | 22.13                       | 22.67                       |               |            |  |  |
| 20              | QPSK       | 50      | 24        | 22.71                      | 22.13                       | 22.71                       | 24            | 0          |  |  |
| 20              | QPSK       | 50      | 50        | 22.79                      | 22.94                       | 22.77                       |               |            |  |  |
| 20              | QPSK       | 100     | 0         | 22.87                      | 22.13                       | 22.79                       |               |            |  |  |
| 20              | QPSK       | 1       | 0         | 23.04                      | 22.69                       | 22.98                       |               |            |  |  |
| 20              | QPSK       | 1       | 46        | 23.07                      | 22.73                       | 22.65                       | 24            | 0          |  |  |
| 20              | QPSK       | 1       | 99        | 22.82                      | 22.72                       | 22.69                       |               |            |  |  |
| 20              | QPSK       | 50      | 0         | 23.12                      | 23.06                       | 23.05                       |               |            |  |  |
| 20              | QPSK       | 50      | 24        | 23.13                      | 23.07                       | 23.05                       | 24            | 0          |  |  |
| 20              | QPSK       | 50      | 50        | 22.81                      | 23.11                       | 22.98                       |               |            |  |  |
| 20              | QPSK       | 100     | 0         | 23.11                      | 23.16                       | 23.01                       |               |            |  |  |
| 20              | QPSK       | 1       | 0         | 22.32                      | 22.91                       | 22.62                       |               |            |  |  |
| 20              | QPSK       | 1       | 46        | 22.48                      | 22.96                       | 22.61                       | 24            | 0          |  |  |
| 20              | QPSK       | 1       | 99        | 22.36                      | 22.78                       | 22.60                       |               |            |  |  |
| 20              | QPSK       | 50      | 0         | 21.50                      | 21.52                       | 21.40                       |               |            |  |  |
| 20              | QPSK       | 50      | 24        | 21.50                      | 21.50                       | 21.38                       | 23            | 1          |  |  |
| 20              | QPSK       | 50      | 50        | 21.70                      | 21.59                       | 21.38                       |               |            |  |  |
| 20              | QPSK       | 100     | 0         | 21.61                      | 21.68                       | 21.55                       |               |            |  |  |
| 20              | QPSK       | 1       | 0         | 18.86                      | 18.87                       | 18.86                       |               |            |  |  |
| 20              | QPSK       | 1       | 46        | 18.95                      | 18.95                       | 18.95                       | 20            |            |  |  |
| 20              | QPSK       | 1       | 99        | 18.88                      | 18.96                       | 18.95                       |               |            |  |  |
| 20              | QPSK       | 50      | 0         | 18.88                      | 18.98                       | 18.94                       |               |            |  |  |
| 20              | QPSK       | 50      | 24        | 18.92                      | 18.98                       | 18.94                       | 24            | 0          |  |  |
| 20              | QPSK       | 50      | 50        | 18.92                      | 18.91                       | 18.93                       |               |            |  |  |
| 20              | QPSK       | 100     | 0         | 18.94                      | 18.94                       | 18.92                       |               |            |  |  |
| Channel         |            |         |           |                            |                             |                             |               |            |  |  |
| Frequency (MHz) |            |         |           | 18700                      | 18900                       | 19100                       | Turn-on (sec) | Light (dB) |  |  |
| 15              | QPSK       | 1       | 0         | 22.78                      | 22.66                       | 22.78                       |               |            |  |  |
| 15              | QPSK       | 1       | 37        | 22.84                      | 22.65                       | 22.74                       | 24            | 0          |  |  |
| 15              | QPSK       | 1       | 74        | 22.88                      | 22.62                       | 22.62                       |               |            |  |  |
| 15              | QPSK       | 1       | 110       | 22.86                      | 22.66                       | 22.66                       |               |            |  |  |
| 15              | QPSK       | 36      | 20        | 22.05                      | 22.14                       | 22.04                       |               |            |  |  |
| 15              | QPSK       | 36      | 36        | 22.03                      | 22.12                       | 22.74                       |               |            |  |  |
| 15              | QPSK       | 36      | 50        | 22.12                      | 22.07                       | 22.07                       |               |            |  |  |
| 15              | QPSK       | 1       | 0         | 22.78                      | 22.62                       | 22.71                       |               |            |  |  |
| 15              | QPSK       | 1       | 37        | 22.71                      | 22.67                       | 22.64                       | 24            | 0          |  |  |
| 15              | QPSK       | 1       | 74        | 22.83                      | 22.65                       | 22.61                       |               |            |  |  |
| 15              | QPSK       | 1       | 110       | 22.88                      | 22.67                       | 22.79                       |               |            |  |  |
| 15              | QPSK       | 36      | 20        | 22.77                      | 22.68                       | 22.68                       |               |            |  |  |
| 15              | QPSK       | 36      | 36        | 22.77                      | 22.62                       | 22.65                       | 24            | 0          |  |  |
| 15              | QPSK       | 36      | 50        | 22.76                      | 22.65                       | 22.65                       |               |            |  |  |
| 15              | QPSK       | 75      | 0         | 22.76                      | 22.92                       | 22.69                       |               |            |  |  |
| 15              | QPSK       | 1       | 0         | 22.42                      | 22.52                       | 22.55                       |               |            |  |  |
| 15              | QPSK       | 1       | 37        | 22.47                      | 22.60                       | 22.42                       | 24            | 0          |  |  |
| 15              | QPSK       | 1       | 74        | 22.46                      | 22.51                       | 22.51                       |               |            |  |  |
| 15              | QPSK       | 36      | 0         | 21.36                      | 21.62                       | 21.26                       |               |            |  |  |
| 15              | QPSK       | 36      | 20        | 21.45                      | 21.63                       | 21.37                       | 23            | 1          |  |  |
| 15              | QPSK       | 36      | 36        | 21.46                      | 21.65                       | 21.35                       |               |            |  |  |
| 15              | QPSK       | 36      | 50        | 21.46                      | 21.65                       | 21.35                       |               |            |  |  |
| 15              | QPSK       | 1       | 0         | 18.86                      | 18.87                       | 18.87                       | 20            | 4          |  |  |
| 15              | QPSK       | 1       | 37        | 18.86                      | 18.87                       | 18.87                       |               |            |  |  |
| 15              | QPSK       | 1       | 74        | 18.92                      | 18.91                       | 18.91                       |               |            |  |  |
| 15              | QPSK       | 36      | 0         | 18.86                      | 18.86                       | 18.86                       |               |            |  |  |
| 15              | QPSK       | 36      | 20        | 18.92                      | 18.86                       | 18.86                       | 20            | 4          |  |  |
| 15              | QPSK       | 36      | 36        | 18.86                      | 18.86                       | 18.86                       |               |            |  |  |
| 15              | QPSK       | 75      | 0         | 18.92                      | 18.97                       | 18.91                       |               |            |  |  |
| Channel         |            |         |           |                            |                             |                             |               |            |  |  |
| Frequency (MHz) |            |         |           | 18700                      | 18900                       | 19100                       | Turn-on (sec) | Light (dB) |  |  |
| 10              | QPSK       | 1       | 0         | 22.78                      | 22.66                       | 22.78                       |               |            |  |  |
| 10              | QPSK       | 1       | 37        | 22.84                      | 22.65                       | 22.74                       | 24            | 0          |  |  |
| 10              | QPSK       | 1       | 74        | 22.88                      | 22.62                       | 22.62                       |               |            |  |  |
| 10              | QPSK       | 1       | 110       | 22.86                      | 22.66                       | 22.66                       |               |            |  |  |
| 10              | QPSK       | 36      | 20        | 22.05                      | 22.14                       | 22.04                       |               |            |  |  |
| 10              | QPSK       | 36      | 36        | 22.03                      | 22.12                       | 22.74                       |               |            |  |  |
| 10              | QPSK       | 36      | 50        | 22.12                      | 22.07                       | 22.07                       |               |            |  |  |
| 10              | QPSK       | 1       | 0         | 22.78                      | 22.62                       | 22.71                       |               |            |  |  |
| 10              | QPSK       | 1       | 37        | 22.71                      | 22.67                       | 22.64                       | 24            | 0          |  |  |
| 10              | QPSK       | 1       | 74        | 22.83                      | 22.65                       | 22.61                       |               |            |  |  |
| 10              | QPSK       | 1       | 110       | 22.88                      | 22.67                       | 22.79                       |               |            |  |  |
| 10              | QPSK       | 36      | 20        | 22.77                      | 22.68                       | 22.68                       |               |            |  |  |
| 10              | QPSK       | 36      | 36        | 22.77                      | 22.62                       | 22.65                       | 24            | 0          |  |  |
| 10              | QPSK       | 36      | 50        | 22.76                      | 22.65                       | 22.65                       |               |            |  |  |
| 10              | QPSK       | 1       | 0         | 22.42                      | 22.52                       | 22.55                       |               |            |  |  |
| 10              | QPSK       | 1       | 37        | 22.47                      | 22.60                       | 22.42                       | 23            | 1          |  |  |
| 10              | QPSK       | 1       | 74        | 22.46                      | 22.51                       | 22.51                       |               |            |  |  |
| 10              | QPSK       | 36      | 0         | 21.36                      | 21.62                       | 21.26                       |               |            |  |  |
| 10              | QPSK       | 36      | 20        | 21.45                      | 21.63                       | 21.37                       | 23            | 1          |  |  |
| 10              | QPSK       | 36      | 36        | 21.46                      | 21.65                       | 21.35                       |               |            |  |  |
| 10              | QPSK       | 36      | 50        | 21.46                      | 21.65                       | 21.35                       |               |            |  |  |
| 10              | QPSK       | 1       | 0         | 18.86                      | 18.87                       | 18.87                       | 20            | 4          |  |  |
| 10              | QPSK       | 1       | 37        | 18.86                      | 18.87                       | 18.87                       |               |            |  |  |
| 10              | QPSK       | 1       | 74        | 18.92                      | 18.91                       | 18.91                       |               |            |  |  |
| 10              | QPSK       | 36      | 0         | 18.86                      | 18.86                       | 18.86                       |               |            |  |  |
| 10              | QPSK       | 36      | 20        | 18.92                      | 18.86                       | 18.86                       | 20            | 4          |  |  |
| 10              | QPSK       | 36      | 36        | 18.86                      | 18.86                       | 18.86                       |               |            |  |  |
| 10              | QPSK       | 75      | 0         | 18.92                      | 18.97                       | 18.91                       |               |            |  |  |



| Band 5_Ant 0    |            |         |         |                     |                      |                      |                      |               |                 |           |  |
|-----------------|------------|---------|---------|---------------------|----------------------|----------------------|----------------------|---------------|-----------------|-----------|--|
| BW (MHz)        | Modulation | RS Rate | RS Code | Phase Low Ch./Freq. | Phase High Ch./Freq. | Phase Mod. Ch./Freq. | Phase High Ch./Freq. | Turn-up (sec) | Turn-down (sec) | APRS (dB) |  |
| Channel         |            |         |         |                     |                      |                      |                      |               |                 |           |  |
| Frequency (MHz) |            |         |         |                     |                      |                      |                      |               |                 |           |  |
| 10              | QPSK       | 1       | 0       | 22.68               | 22.70                | 22.69                |                      |               |                 |           |  |
| 10              | QPSK       | 1       | 25      | 22.62               | 22.65                | 22.63                |                      |               |                 |           |  |
| 10              | QPSK       | 1       | 26      | 22.74               | 22.84                | 22.81                |                      |               |                 |           |  |
| 10              | QPSK       | 25      | 0       | 22.81               | 22.71                | 22.68                |                      |               |                 |           |  |
| 10              | QPSK       | 25      | 12      | 22.64               | 22.55                | 22.55                |                      |               |                 |           |  |
| 10              | QPSK       | 25      | 25      | 22.68               | 22.74                | 22.64                |                      |               |                 |           |  |
| 10              | QPSK       | 50      | 0       | 22.80               | 22.67                | 22.75                |                      |               |                 |           |  |
| 10              | QPSK       | 50      | 25      | 22.72               | 22.68                | 22.66                |                      |               |                 |           |  |
| 10              | 16QAM      | 1       | 0       | 22.82               | 22.87                | 22.73                |                      |               |                 |           |  |
| 10              | 16QAM      | 1       | 25      | 22.72               | 22.68                | 22.66                |                      |               |                 |           |  |
| 10              | 16QAM      | 1       | 26      | 22.86               | 22.92                | 22.80                |                      |               |                 |           |  |
| 10              | 16QAM      | 25      | 0       | 22.64               | 22.67                | 22.63                |                      |               |                 |           |  |
| 10              | 16QAM      | 25      | 12      | 22.62               | 22.61                | 22.61                |                      |               |                 |           |  |
| 10              | 16QAM      | 25      | 25      | 22.74               | 22.84                | 22.74                |                      |               |                 |           |  |
| 10              | 16QAM      | 50      | 0       | 22.79               | 22.70                | 22.74                |                      |               |                 |           |  |
| 10              | 16QAM      | 50      | 12      | 22.65               | 22.65                | 22.69                |                      |               |                 |           |  |
| 10              | 16QAM      | 50      | 25      | 22.68               | 22.67                | 22.64                |                      |               |                 |           |  |
| 10              | 16QAM      | 50      | 26      | 22.80               | 22.87                | 22.75                |                      |               |                 |           |  |
| 10              | 16QAM      | 50      | 0       | 21.36               | 21.36                | 21.41                |                      |               |                 |           |  |
| 10              | 16QAM      | 25      | 12      | 21.41               | 21.43                | 21.40                |                      |               |                 |           |  |
| 10              | 16QAM      | 25      | 25      | 21.44               | 21.35                | 21.31                |                      |               |                 |           |  |
| 10              | 16QAM      | 50      | 0       | 21.48               | 21.47                | 21.56                |                      |               |                 |           |  |
| 10              | 25QAM      | 1       | 0       | 19.82               | 19.81                | 19.86                |                      |               |                 |           |  |
| 10              | 25QAM      | 1       | 25      | 19.87               | 19.81                | 19.86                |                      |               |                 |           |  |
| 10              | 25QAM      | 1       | 49      | 19.74               | 19.75                | 19.79                |                      |               |                 |           |  |
| 10              | 25QAM      | 25      | 0       | 19.78               | 19.78                | 19.79                |                      |               |                 |           |  |
| 10              | 25QAM      | 25      | 12      | 19.82               | 19.83                | 19.71                |                      |               |                 |           |  |
| 10              | 25QAM      | 25      | 25      | 19.77               | 19.86                | 19.79                |                      |               |                 |           |  |
| 10              | 25QAM      | 50      | 0       | 19.80               | 19.81                | 19.76                |                      |               |                 |           |  |
| Channel         |            |         |         |                     |                      |                      |                      |               |                 |           |  |
| Frequency (MHz) |            |         |         |                     |                      |                      |                      |               |                 |           |  |
| 5               | QPSK       | 1       | 0       | 22.73               | 22.61                | 22.62                |                      |               |                 |           |  |
| 5               | QPSK       | 1       | 12      | 22.66               | 22.60                | 22.69                |                      |               |                 |           |  |
| 5               | QPSK       | 1       | 24      | 22.73               | 22.61                | 22.67                |                      |               |                 |           |  |
| 5               | QPSK       | 1       | 26      | 22.82               | 22.71                | 22.68                |                      |               |                 |           |  |
| 5               | QPSK       | 12      | 7       | 22.67               | 22.60                | 22.73                |                      |               |                 |           |  |
| 5               | QPSK       | 12      | 13      | 22.48               | 22.54                | 22.66                |                      |               |                 |           |  |
| 5               | QPSK       | 24      | 24      | 22.58               | 22.70                | 22.61                |                      |               |                 |           |  |
| 5               | QPSK       | 1       | 0       | 22.86               | 22.63                | 22.65                |                      |               |                 |           |  |
| 5               | 16QAM      | 1       | 12      | 22.61               | 22.64                | 22.61                |                      |               |                 |           |  |
| 5               | 16QAM      | 1       | 24      | 22.58               | 22.65                | 22.60                |                      |               |                 |           |  |
| 5               | 16QAM      | 1       | 26      | 22.86               | 22.60                | 22.61                |                      |               |                 |           |  |
| 5               | 16QAM      | 12      | 7       | 22.60               | 22.76                | 22.62                |                      |               |                 |           |  |
| 5               | 16QAM      | 12      | 13      | 22.63               | 22.73                | 22.61                |                      |               |                 |           |  |
| 5               | 16QAM      | 24      | 24      | 22.67               | 22.67                | 22.67                |                      |               |                 |           |  |
| 5               | 16QAM      | 1       | 0       | 22.65               | 22.42                | 22.65                |                      |               |                 |           |  |
| 5               | 16QAM      | 1       | 12      | 22.44               | 22.48                | 22.71                |                      |               |                 |           |  |
| 5               | 16QAM      | 1       | 24      | 22.58               | 22.70                | 22.61                |                      |               |                 |           |  |
| 5               | 16QAM      | 12      | 0       | 21.17               | 21.38                | 21.40                |                      |               |                 |           |  |
| 5               | 16QAM      | 12      | 7       | 21.26               | 21.26                | 21.16                |                      |               |                 |           |  |
| 5               | 16QAM      | 12      | 13      | 21.38               | 21.27                | 21.42                |                      |               |                 |           |  |
| 5               | 16QAM      | 24      | 24      | 21.35               | 21.41                | 21.37                |                      |               |                 |           |  |
| 5               | 25QAM      | 1       | 0       | 19.75               | 19.67                | 19.62                |                      |               |                 |           |  |
| 5               | 25QAM      | 1       | 12      | 19.80               | 19.64                | 19.67                |                      |               |                 |           |  |
| 5               | 25QAM      | 1       | 24      | 19.84               | 19.68                | 19.67                |                      |               |                 |           |  |
| 5               | 25QAM      | 12      | 0       | 19.75               | 19.65                | 19.67                |                      |               |                 |           |  |
| 5               | 25QAM      | 12      | 7       | 19.73               | 19.61                | 19.65                |                      |               |                 |           |  |
| 5               | 25QAM      | 12      | 13      | 19.74               | 19.66                | 19.64                |                      |               |                 |           |  |
| 5               | 25QAM      | 24      | 0       | 19.84               | 19.68                | 19.73                |                      |               |                 |           |  |
| Channel         |            |         |         |                     |                      |                      |                      |               |                 |           |  |
| Frequency (MHz) |            |         |         |                     |                      |                      |                      |               |                 |           |  |
| 3               | QPSK       | 1       | 0       | 22.48               | 22.47                | 22.48                |                      |               |                 |           |  |
| 3               | QPSK       | 1       | 8       | 22.81               | 22.80                | 22.87                |                      |               |                 |           |  |
| 3               | QPSK       | 1       | 14      | 22.59               | 22.60                | 22.68                |                      |               |                 |           |  |
| 3               | QPSK       | 1       | 26      | 22.58               | 22.71                | 22.48                |                      |               |                 |           |  |
| 3               | QPSK       | 8       | 0       | 22.80               | 22.78                | 22.81                |                      |               |                 |           |  |
| 3               | QPSK       | 8       | 7       | 22.43               | 22.46                | 22.56                |                      |               |                 |           |  |
| 3               | QPSK       | 16      | 0       | 22.61               | 22.60                | 22.64                |                      |               |                 |           |  |
| 3               | 16QAM      | 1       | 0       | 22.86               | 22.70                | 22.65                |                      |               |                 |           |  |
| 3               | 16QAM      | 1       | 8       | 22.62               | 22.60                | 22.60                |                      |               |                 |           |  |
| 3               | 16QAM      | 1       | 14      | 22.60               | 22.65                | 22.61                |                      |               |                 |           |  |
| 3               | 16QAM      | 8       | 0       | 22.46               | 22.61                | 22.61                |                      |               |                 |           |  |
| 3               | 16QAM      | 8       | 7       | 22.67               | 22.63                | 22.67                |                      |               |                 |           |  |
| 3               | 16QAM      | 8       | 7       | 22.69               | 22.67                | 22.74                |                      |               |                 |           |  |
| 3               | 16QAM      | 16      | 0       | 22.71               | 22.65                | 22.74                |                      |               |                 |           |  |
| 3               | 16QAM      | 16      | 0       | 21.52               | 21.38                | 21.38                |                      |               |                 |           |  |
| 3               | 25QAM      | 1       | 0       | 19.66               | 19.62                | 19.69                |                      |               |                 |           |  |
| 3               | 25QAM      | 1       | 8       | 19.83               | 19.65                | 19.69                |                      |               |                 |           |  |
| 3               | 25QAM      | 1       | 14      | 19.63               | 19.64                | 19.67                |                      |               |                 |           |  |
| 3               | 25QAM      | 8       | 0       | 19.67               | 19.75                | 19.75                |                      |               |                 |           |  |
| 3               | 25QAM      | 8       | 4       | 19.61               | 19.70                | 19.65                |                      |               |                 |           |  |
| 3               | 25QAM      | 8       | 7       | 19.72               | 19.61                | 19.65                |                      |               |                 |           |  |
| 3               | 25QAM      | 16      | 0       | 19.76               | 19.67                | 19.68                |                      |               |                 |           |  |
| Channel         |            |         |         |                     |                      |                      |                      |               |                 |           |  |
| Frequency (MHz) |            |         |         |                     |                      |                      |                      |               |                 |           |  |
| 1.4             | QPSK       | 1       | 0       | 22.63               | 22.58                | 22.62                |                      |               |                 |           |  |
| 1.4             | QPSK       | 1       | 8       | 22.67               | 22.62                | 22.62                |                      |               |                 |           |  |
| 1.4             | QPSK       | 1       | 5       | 22.76               | 22.62                | 22.64                |                      |               |                 |           |  |
| 1.4             | QPSK       | 3       | 0       | 22.68               | 22.65                | 22.76                |                      |               |                 |           |  |
| 1.4             | QPSK       | 3       | 5       | 22.66               | 22.69                | 22.61                |                      |               |                 |           |  |
| 1.4             | QPSK       | 3       | 5       | 22.69               | 22.62                | 22.70                |                      |               |                 |           |  |
| 1.4             | QPSK       | 6       | 0       | 22.63               | 22.70                | 22.75                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 1       | 0       | 22.61               | 22.74                | 22.61                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 1       | 5       | 22.71               | 22.66                | 22.63                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 1       | 5       | 22.58               | 22.60                | 22.76                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 0       | 22.63               | 22.62                | 22.69                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.64               | 22.60                | 22.65                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.63               | 22.66                | 22.79                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 6       | 0       | 22.76               | 22.48                | 22.76                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 6       | 5       | 22.72               | 22.64                | 22.72                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 1       | 0       | 22.70               | 22.60                | 22.67                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 1       | 5       | 22.66               | 22.68                | 22.69                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 1       | 5       | 22.73               | 22.70                | 22.73                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 0       | 22.64               | 22.65                | 22.61                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.64               | 22.60                | 22.61                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.74               | 22.72                | 22.61                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.60               | 22.61                | 22.62                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.67               | 22.62                | 22.65                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.73               | 22.71                | 22.73                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.63               | 22.60                | 22.63                |                      |               |                 |           |  |
| 1.4             | 16QAM      | 6       | 0       | 21.58               | 21.53                | 21.65                |                      |               |                 |           |  |
| 1.4             | 25QAM      | 1       | 0       | 19.62               | 19.60                | 19.64                |                      |               |                 |           |  |
| 1.4             | 25QAM      | 1       | 5       | 19.76               | 19.70                | 19.69                |                      |               |                 |           |  |
| 1.4             | 25QAM      | 1       | 5       | 19.73               | 19.68                | 19.73                |                      |               |                 |           |  |
| 1.4             | 25QAM      | 3       | 0       | 19.67               | 19.67                | 19.68                |                      |               |                 |           |  |
| 1.4             | 25QAM      | 3       | 5       | 19.72               | 19.70                | 19.69                |                      |               |                 |           |  |
| 1.4             | 25QAM      | 3       | 5       | 19.75               | 19.62                | 19.64                |                      |               |                 |           |  |
| 1.4             | 25QAM      | 6       | 0       | 19.76               | 19.76                | 19.75                |                      |               |                 |           |  |

| Band 5_Ant 1    |            |         |           |                   |                   |                   |                   |               |                 |            |  |
|-----------------|------------|---------|-----------|-------------------|-------------------|-------------------|-------------------|---------------|-----------------|------------|--|
| BW (MHz)        | Modulation | RS Rate | RS Offset | Power Level (dBm) | Power Level (dBm) | Power Level (dBm) | Power Level (dBm) | Turn-up (sec) | Turn-down (sec) | Light (dB) |  |
| Channel         |            |         |           |                   |                   |                   |                   |               |                 |            |  |
| Frequency (MHz) |            |         |           |                   |                   |                   |                   |               |                 |            |  |
| 10              | QPSK       | 1       | 0         | 22.64             | 22.65             | 22.64             |                   |               |                 |            |  |
| 10              | QPSK       | 1       | 25        | 22.63             | 22.64             | 22.67             |                   |               |                 |            |  |
| 10              | QPSK       | 25      | 0         | 22.76             | 22.70             | 22.68             |                   |               |                 |            |  |
| 10              | QPSK       | 25      | 12        | 22.65             | 22.55             | 22.54             |                   |               |                 |            |  |
| 10              | QPSK       | 25      | 25        | 22.76             | 22.78             | 22.77             |                   |               |                 |            |  |
| 10              | QPSK       | 50      | 0         | 22.77             | 22.66             | 22.61             |                   |               |                 |            |  |
| 10              | 16QAM      | 1       | 0         | 22.65             | 22.67             | 22.67             |                   |               |                 |            |  |
| 10              | 16QAM      | 1       | 25        | 22.70             | 22.76             | 22.71             |                   |               |                 |            |  |
| 10              | 16QAM      | 1       | 26        | 22.81             | 22.80             | 22.81             |                   |               |                 |            |  |
| 10              | 16QAM      | 25      | 0         | 22.50             | 22.60             | 22.59             |                   |               |                 |            |  |
| 10              | 16QAM      | 25      | 0         | 22.46             | 22.47             | 22.44             |                   |               |                 |            |  |
| 10              | 16QAM      | 25      | 12        | 22.38             | 22.46             | 22.42             |                   |               |                 |            |  |
| 10              | 16QAM      | 25      | 25        | 22.76             | 22.80             | 22.76             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.28             | 22.36             | 22.32             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.55             | 22.59             | 22.51             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.67             | 22.70             | 22.70             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.53             | 22.34             | 22.49             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 12        | 22.63             | 22.71             | 22.69             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 25        | 22.63             | 22.66             | 22.62             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 26        | 22.76             | 22.80             | 22.80             |                   |               |                 |            |  |
| 10              | 16QAM      | 50      | 0         | 22.19             | 22.18             | 22.15             |                   |               |                 |            |  |
| 10              | 16QAM</    |         |           |                   |                   |                   |                   |               |                 |            |  |



| Band 12_Ant 0   |            |            |              |                             |                              |                              |                           |              |  |  |
|-----------------|------------|------------|--------------|-----------------------------|------------------------------|------------------------------|---------------------------|--------------|--|--|
| RF<br>MHz       | Modulation | RF<br>Band | RF<br>Offset | Power<br>Low<br>Ch.1 (Freq) | Power<br>Med.<br>Ch.1 (Freq) | Power<br>High<br>Ch.1 (Freq) | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |  |  |
| Channel         |            |            |              | 23055                       |                              | 23155                        |                           |              |  |  |
| Frequency (MHz) |            |            |              | 734                         |                              | 737.5                        |                           |              |  |  |
| 10              | QPSK       | 1          | 0            | 22.84                       | 23.04                        | 23.10                        |                           |              |  |  |
| 10              | QPSK       | 1          | 25           | 23.12                       | 23.25                        | 23.30                        | 24                        | 0            |  |  |
| 10              | QPSK       | 25         | 40           | 23.08                       | 23.18                        | 23.16                        |                           |              |  |  |
| 10              | QPSK       | 25         | 0            | 23.00                       | 22.88                        | 22.80                        |                           |              |  |  |
| 10              | QPSK       | 28         | 12           | 23.10                       | 23.24                        | 23.14                        | 24                        | 0            |  |  |
| 10              | QPSK       | 25         | 25           | 22.85                       | 23.08                        | 23.08                        |                           |              |  |  |
| 10              | QPSK       | 50         | 0            | 23.00                       | 23.00                        | 23.00                        |                           |              |  |  |
| 10              | HQAM       | 1          | 0            | 23.12                       | 23.13                        | 23.13                        |                           |              |  |  |
| 10              | HQAM       | 1          | 25           | 22.87                       | 23.14                        | 23.00                        | 24                        | 0            |  |  |
| 10              | HQAM       | 1          | 40           | 23.01                       | 23.08                        | 23.14                        |                           |              |  |  |
| 10              | HQAM       | 25         | 0            | 23.02                       | 23.18                        | 23.12                        |                           |              |  |  |
| 10              | HQAM       | 25         | 12           | 23.14                       | 23.01                        | 23.15                        | 24                        | 0            |  |  |
| 10              | HQAM       | 25         | 40           | 23.08                       | 23.09                        | 23.15                        |                           |              |  |  |
| 10              | HQAM       | 50         | 0            | 23.02                       | 23.08                        | 23.08                        |                           |              |  |  |
| 10              | HQAM       | 1          | 0            | 22.95                       | 22.98                        | 23.08                        |                           |              |  |  |
| 10              | HQAM       | 1          | 25           | 23.15                       | 23.06                        | 23.10                        | 24                        | 0            |  |  |
| 10              | HQAM       | 1          | 40           | 23.01                       | 23.09                        | 23.15                        |                           |              |  |  |
| 10              | HQAM       | 25         | 0            | 21.64                       | 21.68                        | 21.37                        |                           |              |  |  |
| 10              | HQAM       | 25         | 12           | 21.51                       | 21.52                        | 21.78                        | 23                        | 1            |  |  |
| 10              | HQAM       | 25         | 40           | 21.48                       | 21.50                        | 21.34                        |                           |              |  |  |
| 10              | HQAM       | 50         | 0            | 21.25                       | 21.62                        | 21.76                        |                           |              |  |  |
| 10              | ZSOGAM     | 1          | 0            | 19.87                       | 19.88                        | 19.13                        | 21                        | 3            |  |  |
| 10              | ZSOGAM     | 1          | 40           | 19.95                       | 19.95                        | 19.87                        |                           |              |  |  |
| 10              | ZSOGAM     | 25         | 0            | 19.35                       | 19.32                        | 19.37                        |                           |              |  |  |
| 10              | ZSOGAM     | 25         | 12           | 19.81                       | 19.84                        | 19.80                        | 21                        | 3            |  |  |
| 10              | ZSOGAM     | 25         | 40           | 19.80                       | 19.87                        | 19.38                        |                           |              |  |  |
| 10              | ZSOGAM     | 50         | 0            | 19.43                       | 19.39                        | 19.88                        |                           |              |  |  |
| Channel         |            |            |              | 23155                       |                              | 23155                        | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 23155                       |                              | 23155                        |                           |              |  |  |
| 5               | QPSK       | 1          | 0            | 22.91                       | 23.00                        | 23.04                        |                           |              |  |  |
| 5               | QPSK       | 1          | 12           | 23.08                       | 23.20                        | 23.03                        | 24                        | 0            |  |  |
| 5               | QPSK       | 1          | 24           | 22.84                       | 23.23                        | 22.89                        |                           |              |  |  |
| 5               | QPSK       | 12         | 0            | 23.00                       | 23.04                        | 23.04                        |                           |              |  |  |
| 5               | QPSK       | 12         | 7            | 22.95                       | 23.04                        | 23.03                        | 24                        | 0            |  |  |
| 5               | QPSK       | 12         | 13           | 23.02                       | 22.84                        | 23.02                        |                           |              |  |  |
| 5               | QPSK       | 25         | 0            | 23.08                       | 23.04                        | 23.04                        |                           |              |  |  |
| 5               | HQAM       | 1          | 0            | 22.98                       | 22.81                        | 23.08                        |                           |              |  |  |
| 5               | HQAM       | 1          | 12           | 22.92                       | 22.89                        | 22.74                        | 24                        | 0            |  |  |
| 5               | HQAM       | 1          | 24           | 22.91                       | 23.06                        | 22.82                        |                           |              |  |  |
| 5               | HQAM       | 12         | 0            | 23.00                       | 23.14                        | 23.00                        |                           |              |  |  |
| 5               | HQAM       | 12         | 7            | 22.92                       | 22.75                        | 23.04                        | 24                        | 0            |  |  |
| 5               | HQAM       | 12         | 13           | 22.91                       | 22.85                        | 23.17                        |                           |              |  |  |
| 5               | HQAM       | 25         | 0            | 23.08                       | 23.04                        | 23.04                        |                           |              |  |  |
| 5               | HQAM       | 1          | 0            | 22.72                       | 22.68                        | 23.05                        |                           |              |  |  |
| 5               | HQAM       | 1          | 12           | 23.08                       | 23.09                        | 23.02                        | 24                        | 0            |  |  |
| 5               | HQAM       | 1          | 24           | 22.84                       | 23.09                        | 22.84                        |                           |              |  |  |
| 5               | HQAM       | 12         | 0            | 21.53                       | 21.74                        | 21.57                        |                           |              |  |  |
| 5               | HQAM       | 12         | 7            | 21.32                       | 21.32                        | 21.79                        | 23                        | 1            |  |  |
| 5               | HQAM       | 12         | 13           | 21.38                       | 21.50                        | 21.52                        |                           |              |  |  |
| 5               | HQAM       | 25         | 0            | 21.46                       | 21.50                        | 21.30                        |                           |              |  |  |
| 5               | ZSOGAM     | 1          | 0            | 19.88                       | 19.79                        | 19.85                        | 21                        | 3            |  |  |
| 5               | ZSOGAM     | 1          | 12           | 19.88                       | 19.54                        | 19.12                        |                           |              |  |  |
| 5               | ZSOGAM     | 1          | 24           | 19.88                       | 19.88                        | 19.38                        |                           |              |  |  |
| 5               | ZSOGAM     | 12         | 0            | 19.51                       | 19.57                        | 19.51                        |                           |              |  |  |
| 5               | ZSOGAM     | 12         | 7            | 19.81                       | 19.85                        | 19.84                        | 21                        | 3            |  |  |
| 5               | ZSOGAM     | 12         | 13           | 19.80                       | 19.83                        | 19.83                        |                           |              |  |  |
| 5               | ZSOGAM     | 25         | 0            | 19.80                       | 19.85                        | 19.87                        |                           |              |  |  |
| Channel         |            |            |              | 23155                       |                              | 23165                        | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 703.5                       |                              | 710.5                        |                           |              |  |  |
| 3               | QPSK       | 1          | 0            | 22.84                       | 22.87                        | 22.87                        |                           |              |  |  |
| 3               | QPSK       | 1          | 8            | 23.17                       | 23.21                        | 23.18                        | 24                        | 0            |  |  |
| 3               | QPSK       | 1          | 14           | 22.87                       | 23.12                        | 22.89                        |                           |              |  |  |
| 3               | QPSK       | 8          | 0            | 22.92                       | 23.02                        | 22.73                        |                           |              |  |  |
| 3               | QPSK       | 8          | 4            | 22.81                       | 23.00                        | 22.80                        | 24                        | 0            |  |  |
| 3               | QPSK       | 8          | 7            | 22.79                       | 22.83                        | 23.02                        |                           |              |  |  |
| 3               | QPSK       | 15         | 0            | 22.85                       | 23.11                        | 23.08                        |                           |              |  |  |
| 3               | HQAM       | 1          | 0            | 23.12                       | 23.14                        | 23.14                        |                           |              |  |  |
| 3               | HQAM       | 1          | 8            | 22.85                       | 23.21                        | 22.93                        | 24                        | 0            |  |  |
| 3               | HQAM       | 1          | 14           | 22.84                       | 22.94                        | 22.59                        |                           |              |  |  |
| 3               | HQAM       | 8          | 0            | 22.79                       | 23.01                        | 22.86                        |                           |              |  |  |
| 3               | HQAM       | 8          | 4            | 22.52                       | 23.02                        | 22.52                        |                           |              |  |  |
| 3               | HQAM       | 8          | 7            | 22.80                       | 22.91                        | 22.94                        | 24                        | 0            |  |  |
| 3               | HQAM       | 15         | 0            | 22.97                       | 23.03                        | 22.97                        |                           |              |  |  |
| 3               | HQAM       | 1          | 0            | 22.78                       | 22.88                        | 23.02                        |                           |              |  |  |
| 3               | HQAM       | 1          | 8            | 22.84                       | 23.11                        | 23.15                        | 24                        | 0            |  |  |
| 3               | HQAM       | 1          | 14           | 22.83                       | 22.86                        | 22.91                        |                           |              |  |  |
| 3               | HQAM       | 8          | 0            | 21.61                       | 21.58                        | 21.53                        |                           |              |  |  |
| 3               | HQAM       | 8          | 4            | 21.37                       | 21.59                        | 21.55                        | 23                        | 1            |  |  |
| 3               | HQAM       | 8          | 7            | 21.39                       | 21.51                        | 21.58                        |                           |              |  |  |
| 3               | HQAM       | 15         | 0            | 21.43                       | 21.51                        | 21.53                        |                           |              |  |  |
| 3               | ZSOGAM     | 1          | 0            | 19.85                       | 19.83                        | 19.91                        | 21                        | 3            |  |  |
| 3               | ZSOGAM     | 1          | 8            | 19.92                       | 19.12                        | 19.10                        |                           |              |  |  |
| 3               | ZSOGAM     | 1          | 14           | 19.88                       | 19.88                        | 19.34                        |                           |              |  |  |
| 3               | ZSOGAM     | 8          | 0            | 19.85                       | 19.85                        | 19.35                        |                           |              |  |  |
| 3               | ZSOGAM     | 8          | 4            | 19.84                       | 19.03                        | 19.84                        | 21                        | 3            |  |  |
| 3               | ZSOGAM     | 8          | 7            | 19.85                       | 19.97                        | 19.93                        |                           |              |  |  |
| 3               | ZSOGAM     | 15         | 0            | 19.84                       | 19.82                        | 19.88                        |                           |              |  |  |
| Channel         |            |            |              | 23173                       |                              | 23173                        | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |  |  |
| Frequency (MHz) |            |            |              | 699.7                       |                              | 710.5                        |                           |              |  |  |
| 1.4             | QPSK       | 1          | 0            | 22.72                       | 23.06                        | 23.14                        |                           |              |  |  |
| 1.4             | QPSK       | 1          | 3            | 23.12                       | 22.99                        | 23.18                        | 24                        | 0            |  |  |
| 1.4             | QPSK       | 1          | 5            | 22.85                       | 23.13                        | 23.08                        |                           |              |  |  |
| 1.4             | QPSK       | 3          | 0            | 22.88                       | 22.85                        | 22.88                        |                           |              |  |  |
| 1.4             | QPSK       | 3          | 1            | 22.94                       | 23.07                        | 23.12                        |                           |              |  |  |
| 1.4             | QPSK       | 3          | 3            | 22.85                       | 23.16                        | 22.84                        |                           |              |  |  |
| 1.4             | QPSK       | 6          | 0            | 22.87                       | 23.10                        | 23.09                        | 24                        | 0            |  |  |
| 1.4             | HQAM       | 1          | 0            | 22.88                       | 23.20                        | 22.98                        |                           |              |  |  |
| 1.4             | HQAM       | 1          | 5            | 22.88                       | 23.01                        | 22.85                        | 24                        | 0            |  |  |
| 1.4             | HQAM       | 3          | 0            | 22.88                       | 23.01                        | 22.75                        |                           |              |  |  |
| 1.4             | HQAM       | 1          | 5            | 22.71                       | 22.88                        | 22.85                        |                           |              |  |  |
| 1.4             | HQAM       | 3          | 0            | 22.89                       | 23.02                        | 22.97                        |                           |              |  |  |
| 1.4             | HQAM       | 3          | 3            | 22.83                       | 22.75                        | 22.84                        | 24                        | 0            |  |  |
| 1.4             | HQAM       | 6          | 0            | 22.89                       | 22.86                        | 22.92                        | 24                        | 0            |  |  |
| 1.4             | HQAM       | 1          | 0            | 22.91                       | 22.84                        | 22.87                        |                           |              |  |  |
| 1.4             | HQAM       | 1          | 3            | 22.95                       | 23.10                        | 23.08                        |                           |              |  |  |
| 1.4             | HQAM       | 1          | 5            | 22.92                       | 23.07                        | 22.98                        | 24                        | 0            |  |  |
| 1.4             | HQAM       | 3          | 0            | 22.99                       | 23.01                        | 22.82                        |                           |              |  |  |
| 1.4             | HQAM       | 3          | 1            | 22.77                       | 22.80                        | 22.85                        |                           |              |  |  |
| 1.4             | HQAM       | 3          | 3            | 22.51                       | 22.96                        | 22.96                        |                           |              |  |  |
| 1.4             | HQAM       | 6          | 0            | 21.26                       | 21.45                        | 21.72                        | 23                        | 1            |  |  |
| 1.4             | ZSOGAM     | 1          | 0            | 19.87                       | 19.84                        | 19.87                        | 21                        | 3            |  |  |
| 1.4             | ZSOGAM     | 1          | 5            | 19.91                       | 19.12                        | 19.13                        |                           |              |  |  |
| 1.4             | ZSOGAM     | 1          | 5            | 19.86                       | 19.10                        | 19.87                        |                           |              |  |  |
| 1.4             | ZSOGAM     | 3          | 0            | 19.87                       | 19.84                        | 19.84                        |                           |              |  |  |
| 1.4             | ZSOGAM     | 3          | 1            | 19.85                       | 19.83                        | 19.88                        |                           |              |  |  |
| 1.4             | ZSOGAM     | 3          | 3            | 19.85                       | 19.94                        | 19.86                        |                           |              |  |  |
| 1.4             | ZSOGAM     | 6          | 0            | 19.87                       | 19.88                        | 19.85                        | 21                        | 3            |  |  |

| Band 12_Ant 1   |            |            |              |                             |                              |                              |                           |              |  |  |
|-----------------|------------|------------|--------------|-----------------------------|------------------------------|------------------------------|---------------------------|--------------|--|--|
| RF<br>MHz       | Modulation | RF<br>Band | RF<br>Offset | Power<br>Low<br>Ch.1 (Freq) | Power<br>Med.<br>Ch.1 (Freq) | Power<br>High<br>Ch.1 (Freq) | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |  |  |
| Channel         |            |            |              | 23165                       |                              | 23165                        |                           |              |  |  |
| Frequency (MHz) |            |            |              | 734                         |                              | 737.5                        |                           |              |  |  |
| 10              | QPSK       | 1          | 0            | 22.72                       | 22.59                        | 22.81                        |                           |              |  |  |
| 10              | QPSK       | 1          | 25           | 22.52                       | 23.01                        | 23.10                        | 24                        | 0            |  |  |
| 10              | QPSK       | 25         | 40           | 22.79                       | 23.01                        | 23.00                        |                           |              |  |  |



| Band 14_Ant 0   |            |         |           |                    |                     |                     |                    |          |  |
|-----------------|------------|---------|-----------|--------------------|---------------------|---------------------|--------------------|----------|--|
| DV (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq | Power High Ch. Freq | Power High Ch. Freq | Turn-on time (dBm) | MPN (dB) |  |
| Channel         |            |         |           |                    |                     |                     |                    |          |  |
| 23335           |            |         |           |                    |                     |                     |                    |          |  |
| Frequency (MHz) |            |         |           |                    |                     |                     |                    |          |  |
| 10              | QPSK       | 1       | 0         | 22.85              |                     |                     |                    |          |  |
| 10              | QPSK       | 1       | 25        | 22.82              |                     |                     | 24                 | 0        |  |
| 10              | QPSK       | 1       | 49        | 22.71              |                     |                     |                    |          |  |
| 10              | QPSK       | 25      | 0         | 22.80              |                     |                     |                    |          |  |
| 10              | QPSK       | 25      | 12        | 22.80              |                     |                     | 24                 | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.87              |                     |                     |                    |          |  |
| 10              | QPSK       | 50      | 0         | 22.78              |                     |                     |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.68              |                     |                     |                    |          |  |
| 10              | HQAM       | 1       | 25        | 22.79              |                     |                     | 24                 | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.03              |                     |                     |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.36              |                     |                     |                    |          |  |
| 10              | HQAM       | 25      | 12        | 22.77              |                     |                     | 24                 | 0        |  |
| 10              | HQAM       | 25      | 25        | 22.74              |                     |                     |                    |          |  |
| 10              | HQAM       | 50      | 0         | 22.50              |                     |                     |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.71              |                     |                     |                    |          |  |
| 10              | HQAM       | 1       | 25        | 22.72              |                     |                     | 24                 | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.04              |                     |                     |                    |          |  |
| 10              | HQAM       | 25      | 0         | 21.86              |                     |                     |                    |          |  |
| 10              | HQAM       | 25      | 12        | 21.87              |                     |                     | 23                 | 1        |  |
| 10              | HQAM       | 25      | 25        | 21.75              |                     |                     |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.77              |                     |                     |                    |          |  |
| 10              | DSSSS      | 1       | 0         | 19.76              |                     |                     |                    |          |  |
| 10              | DSSSS      | 1       | 25        | 19.88              |                     |                     | 21                 | 3        |  |
| 10              | DSSSS      | 1       | 49        | 19.85              |                     |                     |                    |          |  |
| 10              | DSSSS      | 25      | 0         | 19.78              |                     |                     |                    |          |  |
| 10              | DSSSS      | 25      | 12        | 19.72              |                     |                     | 21                 | 3        |  |
| 10              | DSSSS      | 25      | 25        | 19.88              |                     |                     |                    |          |  |
| 10              | DSSSS      | 50      | 0         | 19.83              |                     |                     |                    |          |  |
| Channel         |            |         |           |                    |                     |                     |                    |          |  |
| 23355           |            |         |           |                    |                     |                     |                    |          |  |
| 23355           |            |         |           |                    |                     |                     |                    |          |  |
| Frequency (MHz) |            |         |           |                    |                     |                     |                    |          |  |
| 5               | QPSK       | 1       | 0         | 22.46              | 22.86               | 22.50               |                    |          |  |
| 5               | QPSK       | 1       | 12        | 22.75              | 22.86               | 22.81               | 24                 | 0        |  |
| 5               | QPSK       | 1       | 24        | 22.67              | 22.68               | 22.44               |                    |          |  |
| 5               | QPSK       | 12      | 0         | 22.64              | 22.52               | 22.50               |                    |          |  |
| 5               | QPSK       | 12      | 7         | 22.80              | 22.80               | 22.77               | 24                 | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.58              | 22.48               | 22.86               |                    |          |  |
| 5               | QPSK       | 24      | 0         | 22.70              | 22.79               | 22.89               |                    |          |  |
| 5               | HQAM       | 1       | 0         | 22.67              | 22.46               | 22.37               |                    |          |  |
| 5               | HQAM       | 1       | 12        | 22.54              | 22.83               | 22.34               | 24                 | 0        |  |
| 5               | HQAM       | 24      | 0         | 22.56              | 22.67               | 22.58               |                    |          |  |
| 5               | HQAM       | 12      | 0         | 22.36              | 22.45               | 22.44               |                    |          |  |
| 5               | HQAM       | 12      | 7         | 22.68              | 22.78               | 22.76               | 24                 | 0        |  |
| 5               | HQAM       | 12      | 13        | 22.63              | 22.76               | 22.68               |                    |          |  |
| 5               | HQAM       | 24      | 0         | 22.47              | 22.29               | 22.52               |                    |          |  |
| 5               | HQAM       | 1       | 0         | 22.50              | 22.74               | 22.54               |                    |          |  |
| 5               | HQAM       | 1       | 12        | 22.70              | 22.47               | 22.52               | 24                 | 0        |  |
| 5               | HQAM       | 1       | 24        | 22.70              | 22.46               | 22.54               |                    |          |  |
| 5               | HQAM       | 12      | 0         | 21.80              | 21.47               | 21.84               |                    |          |  |
| 5               | HQAM       | 12      | 7         | 21.68              | 21.87               | 21.81               | 23                 | 1        |  |
| 5               | HQAM       | 12      | 13        | 21.94              | 21.75               | 21.83               |                    |          |  |
| 5               | HQAM       | 24      | 0         | 21.84              | 21.81               | 21.50               |                    |          |  |
| 5               | DSSSS      | 1       | 0         | 19.86              | 19.76               | 19.55               |                    |          |  |
| 5               | DSSSS      | 1       | 12        | 19.71              | 19.71               | 19.76               | 21                 | 3        |  |
| 5               | DSSSS      | 1       | 24        | 19.86              | 19.81               | 19.85               |                    |          |  |
| 5               | DSSSS      | 12      | 0         | 19.78              | 19.87               | 19.78               |                    |          |  |
| 5               | DSSSS      | 12      | 7         | 19.85              | 19.87               | 19.89               | 21                 | 3        |  |
| 5               | DSSSS      | 12      | 13        | 19.86              | 19.28               | 19.83               |                    |          |  |
| 5               | DSSSS      | 24      | 0         | 19.75              | 19.82               | 19.76               |                    |          |  |

| Band 14_Ant 1     |            |         |           |                      |                      |                      |                    |          |  |
|-------------------|------------|---------|-----------|----------------------|----------------------|----------------------|--------------------|----------|--|
| DV (MHz)          | Modulation | RB Size | RB Offset | Power Level Ch. Freq | Power Level Ch. Freq | Power Level Ch. Freq | Turn-on time (dBm) | MPN (dB) |  |
| Channel           |            |         |           |                      |                      |                      |                    |          |  |
| 23335             |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)   |            |         |           |                      |                      |                      |                    |          |  |
| 10                | QPSK       | 1       | 0         | 22.45                |                      |                      |                    |          |  |
| 10                | QPSK       | 1       | 25        | 22.50                |                      |                      | 24                 | 0        |  |
| 10                | QPSK       | 1       | 49        | 22.47                |                      |                      |                    |          |  |
| 10                | QPSK       | 25      | 0         | 22.39                |                      |                      |                    |          |  |
| 10                | QPSK       | 25      | 12        | 22.50                |                      |                      | 24                 | 0        |  |
| 10                | QPSK       | 25      | 25        | 22.42                |                      |                      |                    |          |  |
| 10                | QPSK       | 50      | 0         | 22.47                |                      |                      |                    |          |  |
| 10                | HQAM       | 1       | 0         | 20.46                |                      |                      | 24                 | 0        |  |
| 10                | HQAM       | 1       | 25        | 22.35                |                      |                      |                    |          |  |
| 10                | HQAM       | 1       | 49        | 22.37                |                      |                      |                    |          |  |
| 10                | HQAM       | 25      | 0         | 22.21                |                      |                      |                    |          |  |
| 10                | HQAM       | 25      | 12        | 22.29                |                      |                      | 24                 | 0        |  |
| 10                | HQAM       | 25      | 25        | 22.28                |                      |                      |                    |          |  |
| 10                | HQAM       | 50      | 0         | 22.47                |                      |                      |                    |          |  |
| 10                | HQAM       | 1       | 0         | 22.30                |                      |                      |                    |          |  |
| 10                | HQAM       | 1       | 25        | 22.28                |                      |                      | 24                 | 0        |  |
| 10                | HQAM       | 1       | 49        | 22.09                |                      |                      |                    |          |  |
| 10                | HQAM       | 25      | 0         | 20.04                |                      |                      |                    |          |  |
| 10                | HQAM       | 25      | 12        | 21.97                |                      |                      | 23                 | 1        |  |
| 10                | HQAM       | 25      | 25        | 21.50                |                      |                      |                    |          |  |
| 10                | HQAM       | 50      | 0         | 22.14                |                      |                      |                    |          |  |
| 10                | DSSSS      | 1       | 0         | 19.74                |                      |                      |                    |          |  |
| 10                | DSSSS      | 1       | 25        | 19.83                |                      |                      | 21                 | 3        |  |
| 10                | DSSSS      | 1       | 49        | 19.89                |                      |                      |                    |          |  |
| 10                | DSSSS      | 25      | 0         | 19.75                |                      |                      |                    |          |  |
| 10                | DSSSS      | 25      | 12        | 19.88                |                      |                      | 21                 | 3        |  |
| 10                | DSSSS      | 25      | 25        | 19.79                |                      |                      |                    |          |  |
| 10                | DSSSS      | 50      | 0         | 19.79                |                      |                      |                    |          |  |
| Channel           |            |         |           |                      |                      |                      |                    |          |  |
| 23355 23355 23355 |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)   |            |         |           |                      |                      |                      |                    |          |  |
| 5                 | QPSK       | 1       | 0         | 22.46                | 22.51                | 22.50                |                    |          |  |
| 5                 | QPSK       | 1       | 12        | 22.51                | 22.42                | 22.43                | 24                 | 0        |  |
| 5                 | QPSK       | 1       | 24        | 22.47                | 22.34                | 22.24                |                    |          |  |
| 5                 | QPSK       | 12      | 0         | 22.42                | 22.23                | 22.45                |                    |          |  |
| 5                 | QPSK       | 12      | 7         | 22.45                | 22.43                | 22.48                | 24                 | 0        |  |
| 5                 | QPSK       | 12      | 13        | 22.28                | 22.39                | 22.47                |                    |          |  |
| 5                 | QPSK       | 24      | 0         | 22.43                | 22.37                | 22.38                |                    |          |  |
| 5                 | HQAM       | 1       | 0         | 22.32                | 22.43                | 22.48                |                    |          |  |
| 5                 | HQAM       | 1       | 12        | 22.40                | 22.34                | 22.22                | 24                 | 0        |  |
| 5                 | HQAM       | 1       | 24        | 22.26                | 22.40                | 22.29                |                    |          |  |
| 5                 | HQAM       | 12      | 0         | 22.19                | 22.19                | 22.17                |                    |          |  |
| 5                 | HQAM       | 12      | 7         | 21.50                | 21.79                | 21.75                | 23                 | 1        |  |
| 5                 | HQAM       | 12      | 13        | 21.84                | 21.75                | 21.85                |                    |          |  |
| 5                 | HQAM       | 24      | 0         | 21.98                | 22.01                | 21.86                |                    |          |  |
| 5                 | DSSSS      | 1       | 0         | 19.72                | 19.59                | 19.55                | 21                 | 3        |  |
| 5                 | DSSSS      | 1       | 12        | 19.70                | 19.74                | 19.81                |                    |          |  |
| 5                 | DSSSS      | 1       | 24        | 19.80                | 19.75                | 19.84                |                    |          |  |
| 5                 | DSSSS      | 12      | 0         | 19.88                | 19.74                | 19.73                |                    |          |  |
| 5                 | DSSSS      | 12      | 7         | 19.80                | 19.82                | 19.79                | 21                 | 3        |  |
| 5                 | DSSSS      | 12      | 13        | 19.74                | 19.76                | 19.87                |                    |          |  |
| 5                 | DSSSS      | 24      | 0         | 19.78                | 19.78                | 19.76                |                    |          |  |

| Band 17_Ant 0   |            |         |           |                       |                       |                       |                    |          |  |
|-----------------|------------|---------|-----------|-----------------------|-----------------------|-----------------------|--------------------|----------|--|
| DV (MHz)        | Modulation | RB Size | RB Offset | Power (dBm) Ch. Freq. | Power (dBm) Ch. Freq. | Power (dBm) Ch. Freq. | Turn-on time (dBm) | MPN (dB) |  |
| Channel         |            |         |           |                       |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           | 23765                 | 23766                 | 23800                 |                    |          |  |
| 5               | QPSK       | 1       | 0         | 709                   | 710                   | 711                   |                    |          |  |
| 10              | QPSK       | 1       | 0         | 22.83                 | 22.84                 | 22.88                 |                    |          |  |
| 10              | QPSK       | 1       | 25        | 23.07                 | 23.19                 | 23.01                 | 24                 | 0        |  |
| 10              | QPSK       | 1       | 49        | 22.93                 | 23.00                 | 22.97                 |                    |          |  |
| 10              | QPSK       | 25      | 0         | 22.79                 | 22.80                 | 22.89                 |                    |          |  |
| 10              | QPSK       | 25      | 12        | 23.07                 | 23.19                 | 23.01                 | 24                 | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.87                 | 22.88                 | 22.86                 |                    |          |  |
| 10              | QPSK       | 50      | 0         | 23.05                 | 23.16                 | 22.93                 |                    |          |  |
| 10              | HQAM       | 1       | 0         | 23.06                 | 22.69                 | 23.01                 |                    |          |  |
| 10              | HQAM       | 1       | 25        | 22.97                 | 23.15                 | 22.97                 | 24                 | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.87                 | 22.90                 | 22.86                 |                    |          |  |
| 10              | HQAM       | 25      | 0         | 23.12                 | 23.16                 | 22.96                 |                    |          |  |
| 10              | HQAM       | 25      | 12        | 23.00                 | 23.14                 | 22.72                 | 24                 | 0        |  |
| 10              | HQAM       | 25      | 25        | 22.96                 | 22.98                 | 22.86                 |                    |          |  |
| 10              | HQAM       | 50      | 0         | 22.93                 | 23.15                 | 22.98                 |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.80                 | 22.82                 | 22.85                 |                    |          |  |
| 10              | HQAM       | 1       | 25        | 22.84                 | 23.02                 | 22.80                 | 24                 | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.97                 | 22.94                 | 22.71                 |                    |          |  |
| 10              | HQAM       | 25      | 0         | 21.46                 | 21.93                 | 21.44                 |                    |          |  |
| 10              | HQAM       | 25      | 12        | 21.59                 | 21.60                 | 21.44                 | 23                 | 1        |  |
| 10              | HQAM       | 25      | 25        | 21.40                 | 21.74                 | 21.40                 |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.35                 | 21.97                 | 21.46                 |                    |          |  |
| 10              | DSSSS      | 1       | 0         | 19.87                 | 19.89                 | 19.86                 |                    |          |  |
| 10              | DSSSS      | 1       | 25        | 19.94                 | 20.19                 | 20.19                 | 21                 | 3        |  |
| 10              | DSSSS      | 1       | 49        | 19.98                 | 20.09                 | 19.98                 |                    |          |  |
| 10              | DSSSS      | 25      | 0         | 19.96                 | 20.00                 | 20.00                 |                    |          |  |
| 10              | DSSSS      | 25      | 12        | 19.94                 | 19.80                 | 19.83                 | 21                 | 3        |  |
| 10              | DSSSS      | 25      | 25        | 19.95                 | 20.06                 | 19.95                 |                    |          |  |
| 10              | DSSSS      | 50      | 0         | 19.71                 | 19.79                 | 19.77                 |                    |          |  |
| Channel         |            |         |           |                       |                       |                       |                    |          |  |
| Frequency (MHz) |            |         |           | 23765                 | 23766                 | 23800                 |                    |          |  |
| Power (dBm)     |            |         |           | 706.5                 | 710                   | 713.5                 |                    |          |  |
| 5               | QPSK       | 1       | 0         | 22.85                 | 22.86                 | 22.91                 |                    |          |  |
| 5               | QPSK       | 1       | 12        | 23.14                 | 23.14                 | 22.85                 | 24                 | 0        |  |
| 5               | QPSK       | 1       | 24        | 22.94                 | 23.13                 | 22.83                 |                    |          |  |
| 5               | QPSK       | 12      | 0         | 22.79                 | 22.93                 | 22.83                 |                    |          |  |
| 5               | QPSK       | 12      | 7         | 22.79                 | 23.10                 | 22.84                 | 24                 | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.79                 | 22.84                 | 23.04                 |                    |          |  |
| 5               | QPSK       | 24      | 0         | 22.87                 | 23.08                 | 22.86                 |                    |          |  |
| 5               | HQAM       | 1       | 0         | 22.98                 | 23.00                 | 23.05                 |                    |          |  |
| 5               | HQAM       | 1       | 12        | 22.79                 | 22.94                 | 23.04                 | 24                 | 0        |  |
| 5               | HQAM       | 1       | 24        | 22.78                 | 22.85                 | 22.88                 |                    |          |  |
| 5               | HQAM       | 12      | 0         | 23.12                 | 23.03                 | 22.88                 |                    |          |  |
| 5               | HQAM       | 12      | 7         | 23.02                 | 23.03                 | 22.94                 | 24                 | 0        |  |
| 5               | HQAM       | 12      | 13        | 23.00                 | 22.99                 | 23.00                 |                    |          |  |
| 5               | HQAM       | 24      | 0         | 22.87                 | 22.89                 | 23.01                 |                    |          |  |
| 5               | HQAM       | 1       | 0         | 22.53                 | 22.83                 | 22.82                 | 24                 | 0        |  |
| 5               | HQAM       | 1       | 12        | 22.82                 | 22.91                 | 22.92                 |                    |          |  |
| 5               | HQAM       | 1       | 24        | 22.65                 | 22.73                 | 22.50                 |                    |          |  |
| 5               | HQAM       | 12      | 0         | 21.19                 | 21.49                 | 21.49                 |                    |          |  |
| 5               | HQAM       | 12      | 7         | 21.53                 | 21.48                 | 21.25                 | 23                 | 1        |  |
| 5               | HQAM       | 12      | 13        | 21.59                 | 21.58                 | 21.45                 |                    |          |  |
| 5               | HQAM       | 24      | 0         | 21.23                 | 21.33                 | 21.27                 |                    |          |  |
| 5               | DSSSS      | 1       | 0         | 19.81                 | 19.88                 | 19.88                 |                    |          |  |
| 5               | DSSSS      | 1       | 12        | 19.73                 | 19.82                 | 19.68                 | 21                 | 3        |  |
| 5               | DSSSS      | 1       | 24        | 19.86                 | 19.83                 | 19.83                 |                    |          |  |
| 5               | DSSSS      | 12      | 0         | 19.71                 | 19.78                 | 19.71                 |                    |          |  |



| Band 25_Ant 1   |            |            |              |                           |                            |                            |                          |             |  |  |  |
|-----------------|------------|------------|--------------|---------------------------|----------------------------|----------------------------|--------------------------|-------------|--|--|--|
| RF<br>(MHz)     | Modulation | RF<br>Size | RF<br>Offset | Power<br>Low<br>Ch./Freq. | Power<br>Main<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Turn-on<br>and<br>off-on | APN<br>(dB) |  |  |  |
| Channel         |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz) |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 20              | QPSK       | 1          | 0            | 21.71                     | 21.83                      | 21.77                      |                          |             |  |  |  |
| 20              | QPSK       | 1          | 48           | 21.72                     | 22.26                      | 21.70                      | 23                       | 0           |  |  |  |
| 20              | QPSK       | 1          | 96           | 21.74                     | 21.71                      | 21.70                      |                          |             |  |  |  |
| 20              | QPSK       | 50         | 0            | 21.83                     | 21.88                      | 21.85                      |                          |             |  |  |  |
| 20              | QPSK       | 50         | 24           | 21.78                     | 22.04                      | 21.66                      | 23                       | 0           |  |  |  |
| 20              | QPSK       | 50         | 50           | 21.84                     | 21.84                      | 21.86                      |                          |             |  |  |  |
| 20              | QPSK       | 100        | 0            | 21.86                     | 22.01                      | 21.71                      |                          |             |  |  |  |
| 20              | HQPSK      | 1          | 0            | 21.91                     | 21.87                      | 21.80                      |                          |             |  |  |  |
| 20              | HQPSK      | 1          | 48           | 21.98                     | 21.87                      | 21.80                      | 23                       | 0           |  |  |  |
| 20              | HQPSK      | 1          | 96           | 21.92                     | 21.85                      | 21.80                      |                          |             |  |  |  |
| 20              | HQPSK      | 50         | 0            | 21.92                     | 21.90                      | 21.76                      |                          |             |  |  |  |
| 20              | HQPSK      | 50         | 24           | 21.98                     | 21.90                      | 21.87                      | 23                       | 0           |  |  |  |
| 20              | HQPSK      | 50         | 50           | 21.98                     | 21.98                      | 21.67                      |                          |             |  |  |  |
| 20              | HQPSK      | 100        | 0            | 21.45                     | 21.74                      | 21.98                      |                          |             |  |  |  |
| 20              | HQPSK      | 1          | 0            | 21.45                     | 21.82                      | 21.71                      |                          |             |  |  |  |
| 20              | HQPSK      | 1          | 48           | 21.53                     | 21.95                      | 21.71                      |                          |             |  |  |  |
| 20              | HQPSK      | 1          | 96           | 21.49                     | 21.91                      | 21.58                      |                          |             |  |  |  |
| 20              | HQPSK      | 50         | 0            | 21.42                     | 21.93                      | 21.58                      |                          |             |  |  |  |
| 20              | HQPSK      | 50         | 24           | 21.48                     | 21.90                      | 21.57                      | 22                       | 1           |  |  |  |
| 20              | HQPSK      | 50         | 50           | 21.48                     | 21.90                      | 21.57                      |                          |             |  |  |  |
| 20              | HQPSK      | 100        | 0            | 21.20                     | 21.44                      | 21.59                      |                          |             |  |  |  |
| 20              | HQPSK      | 1          | 0            | 21.20                     | 21.45                      | 21.59                      |                          |             |  |  |  |
| 20              | HQPSK      | 50         | 50           | 21.30                     | 21.45                      | 21.34                      |                          |             |  |  |  |
| 20              | DSSS/M     | 1          | 0            | 17.58                     | 17.73                      | 17.72                      |                          |             |  |  |  |
| 20              | DSSS/M     | 1          | 48           | 17.58                     | 17.73                      | 17.72                      | 18                       | 5           |  |  |  |
| 20              | DSSS/M     | 1          | 96           | 17.62                     | 17.80                      | 17.68                      |                          |             |  |  |  |
| 20              | DSSS/M     | 50         | 0            | 17.58                     | 17.73                      | 17.68                      |                          |             |  |  |  |
| 20              | DSSS/M     | 50         | 24           | 17.59                     | 17.73                      | 17.80                      |                          |             |  |  |  |
| 20              | DSSS/M     | 50         | 50           | 17.62                     | 17.73                      | 17.63                      |                          |             |  |  |  |
| 20              | DSSS/M     | 100        | 0            | 17.54                     | 17.68                      | 17.68                      |                          |             |  |  |  |
| Channel         |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz) |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 15              | QPSK       | 1          | 0            | 21.43                     | 21.88                      | 21.60                      | Turn-on<br>and<br>off-on | APN<br>(dB) |  |  |  |
| 15              | QPSK       | 1          | 37           | 21.46                     | 22.05                      | 21.63                      | 23                       | 0           |  |  |  |
| 15              | QPSK       | 1          | 74           | 21.42                     | 21.79                      | 21.72                      |                          |             |  |  |  |
| 15              | QPSK       | 36         | 0            | 21.62                     | 21.60                      | 21.67                      |                          |             |  |  |  |
| 15              | QPSK       | 36         | 20           | 21.53                     | 21.88                      | 21.81                      | 23                       | 0           |  |  |  |
| 15              | QPSK       | 36         | 57           | 21.50                     | 21.58                      | 21.49                      |                          |             |  |  |  |
| 15              | QPSK       | 36         | 87           | 21.47                     | 21.63                      | 21.49                      |                          |             |  |  |  |
| 15              | HQPSK      | 1          | 0            | 21.83                     | 21.83                      | 21.62                      |                          |             |  |  |  |
| 15              | HQPSK      | 1          | 37           | 21.48                     | 21.59                      | 21.34                      | 23                       | 0           |  |  |  |
| 15              | HQPSK      | 1          | 74           | 21.38                     | 21.31                      | 21.37                      |                          |             |  |  |  |
| 15              | HQPSK      | 1          | 111          | 21.39                     | 21.59                      | 21.47                      |                          |             |  |  |  |
| 15              | HQPSK      | 36         | 0            | 21.30                     | 21.88                      | 21.81                      |                          |             |  |  |  |
| 15              | HQPSK      | 36         | 20           | 21.37                     | 21.60                      | 21.63                      |                          |             |  |  |  |
| 15              | HQPSK      | 36         | 57           | 21.30                     | 21.58                      | 21.48                      |                          |             |  |  |  |
| 15              | HQPSK      | 1          | 0            | 21.48                     | 21.82                      | 21.60                      |                          |             |  |  |  |
| 15              | HQPSK      | 1          | 37           | 21.20                     | 21.77                      | 21.40                      | 23                       | 0           |  |  |  |
| 15              | HQPSK      | 1          | 74           | 21.20                     | 21.77                      | 21.40                      |                          |             |  |  |  |
| 15              | HQPSK      | 36         | 0            | 21.34                     | 21.79                      | 21.18                      |                          |             |  |  |  |
| 15              | HQPSK      | 36         | 20           | 21.58                     | 21.30                      | 21.15                      | 22                       | 1           |  |  |  |
| 15              | HQPSK      | 36         | 57           | 21.58                     | 21.30                      | 21.07                      |                          |             |  |  |  |
| 15              | HQPSK      | 36         | 87           | 21.58                     | 21.30                      | 21.07                      |                          |             |  |  |  |
| 15              | DSSS/M     | 1          | 0            | 17.68                     | 17.81                      | 17.47                      |                          |             |  |  |  |
| 15              | DSSS/M     | 1          | 37           | 17.62                     | 17.72                      | 17.72                      | 18                       | 5           |  |  |  |
| 15              | DSSS/M     | 1          | 74           | 17.68                     | 17.78                      | 17.68                      |                          |             |  |  |  |
| 15              | DSSS/M     | 36         | 0            | 17.43                     | 17.66                      | 17.58                      |                          |             |  |  |  |
| 15              | DSSS/M     | 36         | 20           | 17.58                     | 17.73                      | 17.82                      |                          |             |  |  |  |
| 15              | DSSS/M     | 36         | 57           | 17.58                     | 17.73                      | 17.82                      | 18                       | 5           |  |  |  |
| 15              | DSSS/M     | 36         | 87           | 17.48                     | 17.66                      | 17.57                      |                          |             |  |  |  |
| Channel         |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz) |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 10              | QPSK       | 1          | 0            | 21.40                     | 21.87                      | 21.61                      | Turn-on<br>and<br>off-on | APN<br>(dB) |  |  |  |
| 10              | QPSK       | 1          | 37           | 21.46                     | 22.05                      | 21.63                      | 23                       | 0           |  |  |  |
| 10              | QPSK       | 1          | 74           | 21.42                     | 21.79                      | 21.72                      |                          |             |  |  |  |
| 10              | QPSK       | 36         | 0            | 21.62                     | 21.60                      | 21.67                      |                          |             |  |  |  |
| 10              | QPSK       | 36         | 20           | 21.53                     | 21.87                      | 21.81                      | 23                       | 0           |  |  |  |
| 10              | QPSK       | 36         | 57           | 21.50                     | 21.58                      | 21.49                      |                          |             |  |  |  |
| 10              | QPSK       | 36         | 87           | 21.47                     | 21.63                      | 21.49                      |                          |             |  |  |  |
| 10              | HQPSK      | 1          | 0            | 21.83                     | 21.83                      | 21.62                      |                          |             |  |  |  |
| 10              | HQPSK      | 1          | 37           | 21.48                     | 21.59                      | 21.34                      | 23                       | 0           |  |  |  |
| 10              | HQPSK      | 1          | 74           | 21.38                     | 21.31                      | 21.37                      |                          |             |  |  |  |
| 10              | HQPSK      | 1          | 111          | 21.39                     | 21.59                      | 21.47                      |                          |             |  |  |  |
| 10              | HQPSK      | 36         | 0            | 21.30                     | 21.88                      | 21.81                      |                          |             |  |  |  |
| 10              | HQPSK      | 36         | 20           | 21.37                     | 21.60                      | 21.63                      |                          |             |  |  |  |
| 10              | HQPSK      | 36         | 57           | 21.30                     | 21.58                      | 21.48                      |                          |             |  |  |  |
| 10              | HQPSK      | 1          | 0            | 21.48                     | 21.82                      | 21.60                      |                          |             |  |  |  |
| 10              | HQPSK      | 1          | 37           | 21.20                     | 21.77                      | 21.40                      | 23                       | 0           |  |  |  |
| 10              | HQPSK      | 1          | 74           | 21.20                     | 21.77                      | 21.40                      |                          |             |  |  |  |
| 10              | HQPSK      | 36         | 0            | 21.34                     | 21.79                      | 21.18                      |                          |             |  |  |  |
| 10              | HQPSK      | 36         | 20           | 21.58                     | 21.30                      | 21.15                      | 22                       | 1           |  |  |  |
| 10              | HQPSK      | 36         | 57           | 21.58                     | 21.30                      | 21.07                      |                          |             |  |  |  |
| 10              | HQPSK      | 36         | 87           | 21.58                     | 21.30                      | 21.07                      |                          |             |  |  |  |
| 10              | DSSS/M     | 1          | 0            | 17.68                     | 17.81                      | 17.47                      |                          |             |  |  |  |
| 10              | DSSS/M     | 1          | 37           | 17.62                     | 17.72                      | 17.72                      | 18                       | 5           |  |  |  |
| 10              | DSSS/M     | 1          | 74           | 17.68                     | 17.78                      | 17.68                      |                          |             |  |  |  |
| 10              | DSSS/M     | 36         | 0            | 17.43                     | 17.66                      | 17.58                      |                          |             |  |  |  |
| 10              | DSSS/M     | 36         | 20           | 17.58                     | 17.73                      | 17.82                      |                          |             |  |  |  |
| 10              | DSSS/M     | 36         | 57           | 17.58                     | 17.73                      | 17.82                      | 18                       | 5           |  |  |  |
| 10              | DSSS/M     | 36         | 87           | 17.48                     | 17.66                      | 17.57                      |                          |             |  |  |  |
| Channel         |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz) |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 5               | QPSK       | 1          | 0            | 21.36                     | 21.84                      | 21.54                      | Turn-on<br>and<br>off-on | APN<br>(dB) |  |  |  |
| 5               | QPSK       | 1          | 37           | 21.40                     | 22.07                      | 21.64                      | 23                       | 0           |  |  |  |
| 5               | QPSK       | 1          | 74           | 21.37                     | 21.79                      | 21.72                      |                          |             |  |  |  |
| 5               | QPSK       | 12         | 0            | 21.72                     | 21.78                      | 21.73                      |                          |             |  |  |  |
| 5               | QPSK       | 12         | 37           | 21.79                     | 21.87                      | 21.80                      | 23                       | 0           |  |  |  |
| 5               | QPSK       | 12         | 74           | 21.73                     | 21.87                      | 21.83                      |                          |             |  |  |  |
| 5               | QPSK       | 12         | 111          | 21.70                     | 21.87                      | 21.83                      |                          |             |  |  |  |
| 5               | HQPSK      | 1          | 0            | 21.82                     | 21.82                      | 21.62                      |                          |             |  |  |  |
| 5               | HQPSK      | 1          | 37           | 21.38                     | 21.51                      | 21.40                      | 23                       | 0           |  |  |  |
| 5               | HQPSK      | 1          | 74           | 21.38                     | 21.48                      | 21.43                      |                          |             |  |  |  |
| 5               | HQPSK      | 1          | 111          | 21.38                     | 21.48                      | 21.43                      |                          |             |  |  |  |
| 5               | HQPSK      | 12         | 0            | 21.58                     | 21.43                      | 21.39                      |                          |             |  |  |  |
| 5               | HQPSK      | 12         | 37           | 21.65                     | 21.58                      | 21.56                      |                          |             |  |  |  |
| 5               | HQPSK      | 12         | 74           | 21.61                     | 21.75                      | 21.60                      |                          |             |  |  |  |
| 5               | HQPSK      | 12         | 111          | 21.57                     | 21.78                      | 21.58                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 0            | 21.27                     | 21.78                      | 21.38                      | 23                       | 0           |  |  |  |
| 5               | HQPSK      | 25         | 37           | 21.36                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 74           | 21.36                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 111          | 21.36                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      |                          |             |  |  |  |
| 5               | HQPSK      | 25         | 12           | 21.38                     | 21.63                      | 21.54                      | </                       |             |  |  |  |

| Band 30_Ant 1   |            |          |           |                       |                        |                        |                     |          |  |
|-----------------|------------|----------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|
| BW (kHz)        | Modulation | RB (kHz) | RB Offset | Power Low Ch. (Freq.) | Power Main Ch. (Freq.) | Power High Ch. (Freq.) | Tune-up freq. (MHz) | MFR (dB) |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 10              | QPSK       | 1        | 0         | 23.18                 |                        |                        |                     |          |  |
| 10              | QPSK       | 1        | 25        | 23.18                 |                        |                        | 24                  | 0        |  |
| 10              | QPSK       | 1        | 49        | 23.18                 |                        |                        |                     |          |  |
| 10              | QPSK       | 25       | 0         | 23.82                 |                        |                        |                     |          |  |
| 10              | QPSK       | 25       | 12        | 23.82                 |                        |                        | 24                  | 0        |  |
| 10              | QPSK       | 25       | 25        | 23.82                 |                        |                        |                     |          |  |
| 10              | QPSK       | 50       | 0         | 23.75                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 1        | 0         | 23.10                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 1        | 25        | 23.08                 |                        |                        | 24                  | 0        |  |
| 10              | 16QAM      | 1        | 49        | 23.05                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 25       | 0         | 23.82                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 25       | 12        | 23.84                 |                        |                        | 23                  | 1        |  |
| 10              | 16QAM      | 25       | 25        | 23.75                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 50       | 0         | 23.78                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 1        | 0         | 22.82                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 1        | 25        | 22.11                 |                        |                        | 24                  | 0        |  |
| 10              | 84QAM      | 1        | 49        | 22.00                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 25       | 0         | 21.94                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 25       | 12        | 22.25                 |                        |                        | 23                  | 1        |  |
| 10              | 84QAM      | 25       | 25        | 21.81                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 50       | 0         | 21.88                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 1        | 0         | 18.88                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 1        | 25        | 18.30                 |                        |                        | 20                  | 4        |  |
| 10              | 256QAM     | 1        | 49        | 18.31                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 25       | 0         | 18.02                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 25       | 12        | 18.13                 |                        |                        | 20                  | 4        |  |
| 10              | 256QAM     | 25       | 25        | 18.00                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 50       | 0         | 18.11                 |                        |                        |                     |          |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 5               | QPSK       | 1        | 0         | 22.05                 | 23.00                  | 22.91                  |                     |          |  |
| 5               | QPSK       | 1        | 12        | 23.08                 | 23.13                  | 23.08                  | 24                  | 0        |  |
| 5               | QPSK       | 1        | 24        | 22.91                 | 22.92                  | 23.00                  |                     |          |  |
| 5               | QPSK       | 12       | 0         | 22.04                 | 22.73                  | 22.80                  |                     |          |  |
| 5               | QPSK       | 12       | 7         | 22.89                 | 22.81                  | 22.71                  | 24                  | 0        |  |
| 5               | QPSK       | 12       | 13        | 22.70                 | 22.74                  | 22.88                  |                     |          |  |
| 5               | QPSK       | 25       | 0         | 22.39                 | 22.71                  | 22.91                  |                     |          |  |
| 5               | 16QAM      | 1        | 0         | 23.05                 | 23.16                  | 23.13                  |                     |          |  |
| 5               | 16QAM      | 1        | 12        | 23.04                 | 23.12                  | 23.00                  | 24                  | 0        |  |
| 5               | 16QAM      | 1        | 24        | 22.98                 | 22.81                  | 22.80                  |                     |          |  |
| 5               | 16QAM      | 12       | 0         | 21.78                 | 21.80                  | 21.75                  |                     |          |  |
| 5               | 16QAM      | 12       | 7         | 21.80                 | 21.83                  | 21.74                  | 23                  | 1        |  |
| 5               | 16QAM      | 12       | 13        | 21.84                 | 21.75                  | 21.83                  |                     |          |  |
| 5               | 16QAM      | 25       | 0         | 21.73                 | 21.76                  | 21.70                  |                     |          |  |
| 5               | 84QAM      | 1        | 0         | 22.81                 | 22.98                  | 22.76                  |                     |          |  |
| 5               | 84QAM      | 1        | 12        | 23.01                 | 23.10                  | 23.06                  | 24                  | 0        |  |
| 5               | 84QAM      | 1        | 24        | 22.90                 | 22.86                  | 22.94                  |                     |          |  |
| 5               | 84QAM      | 12       | 0         | 21.84                 | 21.75                  | 21.84                  |                     |          |  |
| 5               | 84QAM      | 12       | 7         | 21.87                 | 21.38                  | 21.50                  | 23                  | 1        |  |
| 5               | 84QAM      | 12       | 13        | 21.80                 | 21.83                  | 21.85                  |                     |          |  |
| 5               | 84QAM      | 25       | 0         | 21.72                 | 21.76                  | 21.68                  |                     |          |  |
| 5               | 256QAM     | 1        | 0         | 18.95                 | 18.91                  | 18.05                  |                     |          |  |
| 5               | 256QAM     | 1        | 12        | 18.24                 | 18.12                  | 18.24                  | 20                  | 4        |  |
| 5               | 256QAM     | 1        | 24        | 18.20                 | 18.26                  | 18.36                  |                     |          |  |
| 5               | 256QAM     | 12       | 0         | 18.97                 | 18.08                  | 18.05                  |                     |          |  |
| 5               | 256QAM     | 12       | 7         | 18.02                 | 18.02                  | 18.07                  | 20                  | 4        |  |
| 5               | 256QAM     | 12       | 13        | 18.08                 | 18.01                  | 18.08                  |                     |          |  |
| 5               | 256QAM     | 25       | 0         | 18.04                 | 18.11                  | 18.11                  |                     |          |  |

| Band 30_Ant 2   |            |          |           |                       |                        |                        |                     |          |  |
|-----------------|------------|----------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|
| BW (kHz)        | Modulation | RB (kHz) | RB Offset | Power Low Ch. (Freq.) | Power Main Ch. (Freq.) | Power High Ch. (Freq.) | Tune-up freq. (MHz) | MFR (dB) |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 10              | QPSK       | 1        | 0         | 23.18                 |                        |                        |                     |          |  |
| 10              | QPSK       | 1        | 25        | 23.25                 |                        |                        | 24                  | 0        |  |
| 10              | QPSK       | 1        | 49        | 23.20                 |                        |                        |                     |          |  |
| 10              | QPSK       | 25       | 0         | 23.16                 |                        |                        |                     |          |  |
| 10              | QPSK       | 25       | 12        | 23.24                 |                        |                        | 24                  | 0        |  |
| 10              | QPSK       | 25       | 25        | 23.28                 |                        |                        |                     |          |  |
| 10              | QPSK       | 50       | 0         | 23.21                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 1        | 0         | 23.20                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 1        | 25        | 23.17                 |                        |                        | 24                  | 0        |  |
| 10              | 16QAM      | 1        | 49        | 23.18                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 25       | 0         | 23.25                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 25       | 12        | 23.24                 |                        |                        | 23                  | 1        |  |
| 10              | 16QAM      | 25       | 25        | 23.24                 |                        |                        |                     |          |  |
| 10              | 16QAM      | 50       | 0         | 23.22                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 1        | 0         | 23.17                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 1        | 25        | 23.15                 |                        |                        | 23                  | 1        |  |
| 10              | 84QAM      | 1        | 49        | 23.11                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 25       | 0         | 23.13                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 25       | 12        | 23.11                 |                        |                        | 22                  | 2        |  |
| 10              | 84QAM      | 25       | 25        | 23.13                 |                        |                        |                     |          |  |
| 10              | 84QAM      | 50       | 0         | 23.09                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 1        | 0         | 18.12                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 1        | 25        | 18.07                 |                        |                        | 20                  | 4        |  |
| 10              | 256QAM     | 1        | 49        | 18.03                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 25       | 0         | 18.09                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 25       | 12        | 18.03                 |                        |                        | 20                  | 4        |  |
| 10              | 256QAM     | 25       | 25        | 18.12                 |                        |                        |                     |          |  |
| 10              | 256QAM     | 50       | 0         | 18.14                 |                        |                        |                     |          |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 5               | QPSK       | 1        | 0         | 22.17                 | 23.13                  | 22.14                  |                     |          |  |
| 5               | QPSK       | 1        | 12        | 22.24                 | 22.24                  | 22.23                  | 24                  | 0        |  |
| 5               | QPSK       | 1        | 24        | 22.15                 | 22.17                  | 22.13                  |                     |          |  |
| 5               | QPSK       | 12       | 0         | 22.13                 | 22.05                  | 22.12                  |                     |          |  |
| 5               | QPSK       | 12       | 7         | 22.19                 | 22.11                  | 22.18                  | 24                  | 0        |  |
| 5               | QPSK       | 12       | 13        | 22.11                 | 22.07                  | 22.07                  |                     |          |  |
| 5               | QPSK       | 25       | 0         | 22.18                 | 22.09                  | 22.12                  |                     |          |  |
| 5               | 16QAM      | 1        | 0         | 22.03                 | 22.07                  | 22.05                  |                     |          |  |
| 5               | 16QAM      | 1        | 12        | 22.19                 | 22.20                  | 22.10                  | 24                  | 0        |  |
| 5               | 16QAM      | 1        | 24        | 22.02                 | 22.08                  | 22.07                  |                     |          |  |
| 5               | 16QAM      | 12       | 0         | 21.91                 | 21.11                  | 21.18                  |                     |          |  |
| 5               | 16QAM      | 12       | 7         | 21.19                 | 21.15                  | 21.28                  | 23                  | 1        |  |
| 5               | 16QAM      | 12       | 13        | 21.21                 | 21.13                  | 21.08                  |                     |          |  |
| 5               | 16QAM      | 25       | 0         | 21.17                 | 21.10                  | 21.15                  |                     |          |  |
| 5               | 84QAM      | 1        | 0         | 21.21                 | 21.18                  | 21.28                  |                     |          |  |
| 5               | 84QAM      | 1        | 12        | 21.31                 | 21.28                  | 21.33                  | 23                  | 1        |  |
| 5               | 84QAM      | 1        | 24        | 21.17                 | 21.10                  | 21.14                  |                     |          |  |
| 5               | 84QAM      | 12       | 0         | 20.15                 | 20.10                  | 20.18                  |                     |          |  |
| 5               | 84QAM      | 12       | 7         | 20.16                 | 20.12                  | 20.21                  | 22                  | 2        |  |
| 5               | 84QAM      | 12       | 13        | 20.17                 | 20.10                  | 20.10                  |                     |          |  |
| 5               | 84QAM      | 25       | 0         | 20.16                 | 20.08                  | 20.13                  |                     |          |  |
| 5               | 256QAM     | 1        | 0         | 18.13                 | 18.06                  | 18.18                  |                     |          |  |
| 5               | 256QAM     | 1        | 12        | 18.12                 | 18.08                  | 18.05                  | 20                  | 4        |  |
| 5               | 256QAM     | 1        | 24        | 18.06                 | 18.07                  | 18.12                  |                     |          |  |
| 5               | 256QAM     | 12       | 0         | 18.17                 | 18.14                  | 18.14                  |                     |          |  |
| 5               | 256QAM     | 12       | 7         | 18.07                 | 18.08                  | 18.12                  | 20                  | 4        |  |
| 5               | 256QAM     | 12       | 13        | 18.16                 | 18.16                  | 18.18                  |                     |          |  |
| 5               | 256QAM     | 25       | 0         | 18.21                 | 18.14                  | 18.18                  |                     |          |  |

| Band 66_Ant 1   |            |          |           |                       |                        |                        |                     |          |  |
|-----------------|------------|----------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|
| BW (kHz)        | Modulation | RB (kHz) | RB Offset | Power Low Ch. (Freq.) | Power Main Ch. (Freq.) | Power High Ch. (Freq.) | Tune-up freq. (MHz) | MFR (dB) |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 20              | QPSK       | 1        | 0         | 21.85                 | 21.89                  | 21.80                  |                     |          |  |
| 20              | QPSK       | 1        | 49        | 21.86                 | 22.00                  | 21.86                  | 23                  | 0        |  |
| 20              | QPSK       | 1        | 98        | 21.80                 | 21.84                  | 21.78                  |                     |          |  |
| 20              | QPSK       | 50       | 0         | 21.80                 | 21.84                  | 21.68                  |                     |          |  |
| 20              | QPSK       | 50       | 24        | 21.83                 | 22.08                  | 21.84                  | 23                  | 0        |  |
| 20              | QPSK       | 50       | 50        | 21.85                 | 21.87                  | 21.73                  |                     |          |  |
| 20              | QPSK       | 100      | 0         | 21.80                 | 22.04                  | 21.82                  |                     |          |  |
| 20              | 16QAM      | 1        | 0         | 21.87                 | 21.86                  | 21.68                  |                     |          |  |
| 20              | 16QAM      | 1        | 49        | 21.77                 | 22.05                  | 21.89                  | 23                  | 0        |  |
| 20              | 16QAM      | 1        | 98        | 21.83                 | 21.73                  | 21.59                  |                     |          |  |
| 20              | 16QAM      | 50       | 0         | 21.49                 | 21.82                  | 21.50                  |                     |          |  |
| 20              | 16QAM      | 50       | 24        | 21.72                 | 22.08                  | 21.88                  | 23                  | 0        |  |
| 20              | 16QAM      | 50       | 50        | 21.84                 | 21.70                  | 21.48                  |                     |          |  |
| 20              | 16QAM      | 100      | 0         | 21.56                 | 21.74                  | 21.71                  |                     |          |  |
| 20              | 84QAM      | 1        | 0         | 21.88                 | 21.36                  | 21.62                  |                     |          |  |
| 20              | 84QAM      | 1        | 49        | 21.88                 | 21.82                  | 21.83                  | 23                  | 0        |  |
| 20              | 84QAM      | 1        | 98        | 21.85                 | 21.85                  | 21.78                  |                     |          |  |
| 20              | 84QAM      | 50       | 0         | 21.36                 | 21.36                  | 21.25                  |                     |          |  |
| 20              | 84QAM      | 50       | 24        | 21.37                 | 21.58                  | 21.38                  | 22                  | 1        |  |
| 20              | 84QAM      | 50       | 50        | 21.31                 | 21.45                  | 21.47                  |                     |          |  |
| 20              | 256QAM     | 1        | 0         | 17.87                 | 18.10                  | 17.91                  |                     |          |  |
| 20              | 256QAM     | 1        | 49        | 17.83                 | 18.08                  | 17.88                  | 19                  | 4        |  |
| 20              | 256QAM     | 1        | 98        | 17.94                 | 18.01                  | 18.05                  |                     |          |  |
| 20              | 256QAM     | 50       | 0         | 17.83                 | 17.86                  | 17.83                  |                     |          |  |
| 20              | 256QAM     | 50       | 24        | 17.82                 | 17.87                  | 17.88                  | 19                  | 4        |  |
| 20              | 256QAM     | 50       | 50        | 17.89                 | 17.84                  | 17.88                  |                     |          |  |
| 20              | 256QAM     | 100      | 0         | 17.88                 | 17.82                  | 17.82                  |                     |          |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 15              | QPSK       | 1        | 0         | 21.87                 | 21.87                  | 21.77                  |                     |          |  |
| 15              | QPSK       | 1        | 37        | 21.84                 | 21.84                  | 21.88                  | 23                  | 0        |  |
| 15              | QPSK       | 1        | 74        | 21.83                 | 21.87                  | 21.89                  |                     |          |  |
| 15              | QPSK       | 36       | 0         | 21.54                 | 21.86                  | 21.                    |                     |          |  |
| 15              | QPSK       | 36       | 20        | 21.78                 | 21.58                  | 21.52                  |                     |          |  |
| 15              | QPSK       | 36       | 75        | 21.71                 | 21.59                  | 21.53                  | 23                  | 0        |  |
| 15              | QPSK       | 75       | 0         | 21.80                 | 22.01                  | 21.87                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 21.89                 | 21.82                  | 21.56                  |                     |          |  |
| 15              | 16QAM      | 1        | 37        | 21.82                 | 22.01                  | 21.85                  | 23                  | 0        |  |
| 15              | 16QAM      | 1        | 74        | 21.83                 | 21.87                  | 21.89                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 21.46                 | 21.72                  | 21.59                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 21.72                 | 21.97                  | 21.68                  | 23                  | 0        |  |
| 15              | 16QAM      | 36       | 75        | 21.43                 | 21.68                  | 21.57                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 21.52                 | 21.55                  | 21.55                  |                     |          |  |
| 15              | 84QAM      | 1        | 0         | 21.56                 | 21.81                  | 21.42                  |                     |          |  |
| 15              | 84QAM      | 1        | 37        | 21.58                 | 21.86                  | 21.48                  | 23                  | 0        |  |
| 15              | 84QAM      | 1        | 74        | 21.43                 | 21.71                  | 21.58                  |                     |          |  |
| 15              | 84QAM      | 36       | 0         | 21.37                 | 21.31                  | 21.52                  |                     |          |  |
| 15              | 84QAM      | 36       | 20        | 21.51                 | 21.42                  | 21.56                  | 22                  | 1        |  |
| 15              | 84QAM      | 36       | 75        | 21.53                 | 21.54                  | 21.47                  |                     |          |  |
| 15              | 84QAM      | 75       | 0         | 21.35                 | 21.38                  | 21.08                  |                     |          |  |
| 15              | 256QAM     | 1        | 0         | 17.88                 | 18.08                  | 17.91                  |                     |          |  |
| 15              | 256QAM     | 1        | 37        | 17.86                 | 17.87                  | 17.88                  | 19                  | 4        |  |
| 15              | 256QAM     | 1        | 74        | 17.97                 | 17.92                  | 17.91                  |                     |          |  |
| 15              | 256QAM     | 36       | 0         | 17.80                 | 17.86                  | 17.78                  |                     |          |  |
| 15              | 256QAM     | 36       | 20        | 17.87                 | 17.91                  | 17.90                  | 19                  | 4        |  |
| 15              | 256QAM     | 36       | 75        | 17.82                 | 17.85                  | 17.88                  |                     |          |  |
| 15              | 256QAM     | 75       | 0         | 17.72                 | 17.80                  | 17.82                  |                     |          |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 10              | QPSK       | 1        | 0         | 21.83                 | 21.96                  | 21.64                  |                     |          |  |
| 10              | QPSK       | 1        | 20        | 21.91                 | 22.04                  | 21.91                  | 23                  | 0        |  |
| 10              | QPSK       | 1        | 40        | 21.80                 | 21.83                  | 21.83                  |                     |          |  |
| 10              | QPSK       | 1        | 60        | 21.87                 | 21.94                  | 21.84                  | 23                  | 0        |  |
| 10              | QPSK       | 25       | 12        | 21.82                 | 21.95                  | 21.82                  |                     |          |  |
| 10              | QPSK       | 25       | 20        | 21.54                 | 21.60                  | 21.53                  |                     |          |  |
| 10              | QPSK       | 25       | 36        | 21.62                 | 21.61                  | 21.61                  | 23                  | 0        |  |
| 10              | 16QAM      | 1        | 0         | 21.80                 | 21.83                  | 21.64                  |                     |          |  |
| 10              | 16QAM      | 1        | 20        | 21.58                 | 21.88                  | 21.60                  |                     |          |  |
| 10              | 16QAM      | 1        | 40        | 21.83                 | 21.81                  | 21.65                  | 23                  | 0        |  |
| 10              | 16QAM      | 1        | 60        | 21.80                 | 21.86                  | 21.60                  |                     |          |  |
| 10              | 16QAM      | 25       | 12        | 21.82                 | 21.98                  | 21.80                  | 23                  | 0        |  |
| 10              | 16QAM      | 25       | 20        | 21.39                 | 21.71                  | 21.43                  |                     |          |  |
| 10              | 16QAM      | 25       | 36        | 21.63                 | 21.63                  | 21.64                  | 23                  | 0        |  |
| 10              | 84QAM      | 1        | 0         | 21.52                 | 21.97                  | 21.55                  |                     |          |  |
| 10              | 84QAM      | 1        | 20        | 21.34                 | 21.86                  | 21.30                  | 23                  | 0        |  |
| 10              | 84QAM      | 1        | 40        | 21.82                 | 21.83                  | 21.83                  |                     |          |  |
| 10              | 84QAM      | 1        | 60        | 21.80                 | 21.44                  | 21.68                  | 23                  | 0        |  |
| 10              | 84QAM      | 25       | 12        | 21.59                 | 21.61                  | 21.54                  | 22                  | 1        |  |
| 10              | 84QAM      | 25       | 20        | 20.99                 | 21.31                  | 21.21                  |                     |          |  |
| 10              | 84QAM      | 25       | 36        | 21.50                 | 21.50                  | 21.50                  | 23                  | 0        |  |
| 10              | 256QAM     | 1        | 0         | 17.86                 | 18.07                  | 17.83                  |                     |          |  |
| 10              | 256QAM     | 1        | 20        | 17.76                 | 18.08                  | 17.88                  | 19                  | 4        |  |
| 10              | 256QAM     | 1        | 40        | 17.89                 | 17.90                  | 17.90                  |                     |          |  |
| 10              | 256QAM     | 25       | 12        | 17.76                 | 17.96                  | 17.78                  | 19                  | 4        |  |
| 10              | 256QAM     | 25       | 20        | 17.87                 | 17.88                  | 17.89                  |                     |          |  |
| 10              | 256QAM     | 25       | 36        | 17.98                 | 17.97                  | 17.97                  | 19                  | 4        |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 5               | QPSK       | 1        | 0         | 21.81                 | 21.93                  | 21.60                  |                     |          |  |
| 5               | QPSK       | 1        | 5         | 21.58                 | 21.84                  | 21.48                  | 23                  | 0        |  |
| 5               | QPSK       | 1        | 24        | 21.66                 | 21.74                  | 21.70                  |                     |          |  |
| 5               | QPSK       | 12       | 0         | 21.34                 | 21.87                  | 21.67                  |                     |          |  |
| 5               | QPSK       | 12       | 5         | 21.50                 | 21.80                  | 21.50                  | 23                  | 0        |  |
| 5               | QPSK       | 12       | 15        | 21.54                 | 21.75                  | 21.75                  |                     |          |  |
| 5               | QPSK       | 25       | 0         | 21.71                 | 21.89                  | 21.83                  |                     |          |  |
| 5               | QPSK       | 25       | 5         | 21.86                 | 21.86                  | 21.86                  | 23                  | 0        |  |
| 5               | 16QAM      | 1        | 15        | 21.51                 | 21.92                  | 21.77                  |                     |          |  |
| 5               | 16QAM      | 1        | 24        | 21.88                 | 21.76                  | 21.70                  | 23                  | 0        |  |
| 5               | 16QAM      | 12       | 0         | 21.33                 | 21.77                  | 21.67                  |                     |          |  |
| 5               | 16QAM      | 12       | 5         | 21.49                 | 21.89                  | 21.44                  | 23                  | 0        |  |
| 5               | 16QAM      | 12       | 15        | 21.56                 | 21.70                  | 21.68                  |                     |          |  |
| 5               | 16QAM      | 25       | 0         | 21.63                 | 21.49                  | 21.28                  | 23                  | 0        |  |
| 5               | 16QAM      | 25       | 5         | 21.83                 | 21.75                  | 21.58                  |                     |          |  |
| 5               | 16QAM      | 12       | 15        | 21.56                 | 21.89                  | 21.78                  | 23                  | 0        |  |
| 5               | 84QAM      | 1        | 24        | 21.39                 | 21.57                  | 21.68                  |                     |          |  |
| 5               | 84QAM      | 1        | 37        | 21.47                 | 21.71                  | 21.57                  | 22                  | 1        |  |
| 5               | 84QAM      | 12       | 0         | 21.36                 | 21.52                  | 21.54                  |                     |          |  |
| 5               | 84QAM      | 12       | 15        | 20.95                 | 21.34                  | 21.44                  | 22                  | 1        |  |
| 5               | 84QAM      | 25       | 0         | 21.49                 | 21.35                  | 21.56                  |                     |          |  |
| 5               | 84QAM      | 25       | 5         | 21.63                 | 21.63                  | 21.63                  | 23                  | 0        |  |
| 5               | 256QAM     | 1        | 12        | 17.79                 | 18.08                  | 17.83                  | 19                  | 4        |  |
| 5               | 256QAM     | 1        | 24        | 17.89                 | 17.98                  | 17.91                  |                     |          |  |
| 5               | 256QAM     | 1        | 37        | 17.86                 | 17.93                  | 17.93                  | 19                  | 4        |  |
| 5               | 256QAM     | 12       | 0         | 17.93                 | 17.96                  | 17.96                  |                     |          |  |
| 5               | 256QAM     | 12       | 15        | 17.84                 | 17.83                  | 17.86                  |                     |          |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 3               | QPSK       | 1        | 0         | 21.93                 | 21.86                  | 21.71                  |                     |          |  |
| 3               | QPSK       | 1        | 8         | 21.84                 | 22.08                  | 22.01                  | 23                  | 0        |  |
| 3               | QPSK       | 1        | 24        | 21.84                 | 21.80                  | 21.80                  |                     |          |  |
| 3               | QPSK       | 8        | 0         | 21.84                 | 21.80                  | 21.80                  | 23                  | 0        |  |
| 3               | QPSK       | 8        | 4         | 21.86                 | 21.82                  | 21.87                  |                     |          |  |
| 3               | QPSK       | 8        | 7         | 21.86                 | 21.86                  | 21.86                  | 23                  | 0        |  |
| 3               | QPSK       | 15       | 0         | 21.77                 | 22.08                  | 21.64                  |                     |          |  |
| 3               | 16QAM      | 1        | 0         | 21.86                 | 21.81                  | 21.67                  |                     |          |  |
| 3               | 16QAM      | 1        | 8         | 21.86                 | 21.86                  | 21.87                  | 23                  | 0        |  |
| 3               | 16QAM      | 1        | 24        | 21.86                 | 21.82                  | 21.82                  |                     |          |  |
| 3               | 16QAM      | 8        | 0         | 21.72                 | 22.03                  | 21.71                  | 23                  | 0        |  |
| 3               | 16QAM      | 8        | 4         | 21.43                 | 21.43                  | 21.43                  |                     |          |  |
| 3               | 16QAM      | 15       | 0         | 21.80                 | 21.77                  | 21.48                  |                     |          |  |
| 3               | 84QAM      | 1        | 0         | 21.63                 | 21.55                  | 21.67                  | 23                  | 0        |  |
| 3               | 84QAM      | 1        | 8         | 21.74                 | 21.65                  | 21.65                  |                     |          |  |
| 3               | 84QAM      | 1        | 24        | 21.38                 | 21.80                  | 21.63                  | 23                  | 0        |  |
| 3               | 84QAM      | 8        | 0         | 21.25                 | 21.38                  | 21.08                  |                     |          |  |
| 3               | 84QAM      | 8        | 4         | 21.55                 | 21.58                  | 21.25                  | 22                  | 1        |  |
| 3               | 84QAM      | 15       | 0         | 21.50                 | 21.50                  | 21.50                  |                     |          |  |
| 3               | 256QAM     | 1        | 0         | 17.82                 | 18.01                  | 17.88                  | 19                  | 4        |  |
| 3               | 256QAM     | 1        | 8         | 17.91                 | 17.93                  | 17.93                  | 19                  | 4        |  |
| 3               | 256QAM     | 1        | 24        | 17.86                 | 17.82                  | 17.82                  |                     |          |  |
| 3               | 256QAM     | 8        | 0         | 17.87                 | 17.93                  | 17.95                  | 19                  | 4        |  |
| 3               | 256QAM     | 15       | 0         | 17.82                 | 17.84                  | 17.89                  |                     |          |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 1.4             | QPSK       | 1        | 0         | 21.79                 | 21.73                  | 21.68                  |                     |          |  |
| 1.4             | QPSK       | 1        | 3         | 21.90                 | 21.94                  | 21.87                  | 23                  | 0        |  |
| 1.4             | QPSK       | 1        | 9         | 21.90                 | 21.74                  | 21.68                  |                     |          |  |
| 1.4             | QPSK       | 1        | 15        | 21.41                 | 21.97                  | 21.97                  | 23                  | 0        |  |
| 1.4             | QPSK       | 1        | 3         | 21.82                 | 21.50                  | 21.61                  |                     |          |  |
| 1.4             | QPSK       | 3        | 0         | 21.38                 | 21.64                  | 21.49                  | 23                  | 0        |  |
| 1.4             | QPSK       | 3        | 6         | 21.87                 | 21.87                  | 21.87                  |                     |          |  |
| 1.4             | 16QAM      | 1        | 0         | 21.88                 | 21.58                  | 21.45                  |                     |          |  |
| 1.4             | 16QAM      | 1        | 3         | 21.80                 | 21.89                  | 21.50                  | 23                  | 0        |  |
| 1.4             | 16QAM      | 1        | 9         | 21.82                 | 21.79                  | 21.79                  |                     |          |  |
| 1.4             | 16QAM      | 1        | 15        | 21.71                 | 21.37                  | 21.37                  | 23                  | 0        |  |
| 1.4             | 16QAM      | 3        | 0         | 21.80                 | 21.84                  | 21.68                  |                     |          |  |
| 1.4             | 16QAM      | 3        | 6         | 21.83                 | 21.49                  | 21.45                  | 23                  | 0        |  |
| 1.4             | 16QAM      | 3        | 9         | 21.83                 | 21.82                  | 21.83                  |                     |          |  |
| 1.4             | 16QAM      | 3        | 15        | 21.63                 | 21.68                  | 21.34                  | 23                  | 0        |  |
| 1.4             | 84QAM      | 1        | 0         | 21.44                 | 21.63                  | 21.63                  |                     |          |  |
| 1.4             | 84QAM      | 1        | 3         | 21.82                 | 21.51                  | 21.60                  | 23                  | 0        |  |
| 1.4             | 84QAM      | 1        | 9         | 21.82                 | 21.79                  | 21.79                  |                     |          |  |
| 1.4             | 84QAM      | 1        | 15        | 21.49                 | 21.27                  | 21.03                  | 22                  | 1        |  |
| 1.4             | 84QAM      | 3        | 0         | 17.83                 | 17.90                  | 17.88                  |                     |          |  |
| 1.4             | 256QAM     | 1        | 0         | 17.77                 | 18.01                  | 17.91                  |                     |          |  |
| 1.4             | 256QAM     | 1        | 3         | 17.83                 | 17.83                  | 17.83                  | 19                  | 4        |  |
| 1.4             | 256QAM     | 1        | 9         | 17.87                 | 17.86                  | 17.82                  |                     |          |  |
| 1.4             | 256QAM     | 1        | 15        | 17.86                 | 17.82                  | 17.75                  |                     |          |  |
| 1.4             | 256QAM     | 3        | 0         | 17.82                 | 17.88                  | 1                      |                     |          |  |

| Band 66_Ant 2   |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
|-----------------|----------------|----------------|---------------------|---------------------|---------------------|------------------|----------|---|--|--|--|--|--|--|--|
| RF Modulation   | RF Power (dBm) | RF Power (dBm) | Power Line Ch. (Hz) | Power Line Ch. (Hz) | Power High Ch. (Hz) | Turn-on time (s) | MFR (dB) |   |  |  |  |  |  |  |  |
| Channel         |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| Frequency (MHz) |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| 20              | QPSK           | 1              | 0                   | 23.19               | 23.11               | 22.93            |          |   |  |  |  |  |  |  |  |
| 20              | QPSK           | 1              | 49                  | 23.22               | 23.20               | 23.21            | 24       | 0 |  |  |  |  |  |  |  |
| 20              | QPSK           | 1              | 99                  | 23.22               | 23.20               | 23.21            |          |   |  |  |  |  |  |  |  |
| 20              | QPSK           | 50             | 0                   | 23.05               | 23.19               | 22.98            |          |   |  |  |  |  |  |  |  |
| 20              | QPSK           | 50             | 24                  | 23.03               | 23.23               | 23.20            | 24       | 0 |  |  |  |  |  |  |  |
| 20              | QPSK           | 50             | 50                  | 23.18               | 23.18               | 22.99            |          |   |  |  |  |  |  |  |  |
| 20              | QPSK           | 100            | 0                   | 23.15               | 23.20               | 22.97            |          |   |  |  |  |  |  |  |  |
| 20              | 16QAM          | 1              | 0                   | 23.21               | 23.83               | 22.97            |          |   |  |  |  |  |  |  |  |
| 20              | 16QAM          | 1              | 49                  | 23.20               | 23.84               | 22.98            | 24       | 0 |  |  |  |  |  |  |  |
| 20              | 16QAM          | 1              | 99                  | 23.20               | 23.84               | 22.98            |          |   |  |  |  |  |  |  |  |
| 20              | 16QAM          | 50             | 0                   | 22.99               | 23.08               | 22.92            |          |   |  |  |  |  |  |  |  |
| 20              | 16QAM          | 50             | 24                  | 23.21               | 23.23               | 23.04            | 24       | 0 |  |  |  |  |  |  |  |
| 20              | 16QAM          | 50             | 50                  | 23.06               | 23.16               | 22.99            |          |   |  |  |  |  |  |  |  |
| 20              | 16QAM          | 100            | 0                   | 23.02               | 23.25               | 23.01            |          |   |  |  |  |  |  |  |  |
| 20              | 8QAM           | 1              | 0                   | 22.91               | 23.08               | 22.98            |          |   |  |  |  |  |  |  |  |
| 20              | 8QAM           | 1              | 49                  | 22.98               | 23.18               | 22.99            | 24       | 0 |  |  |  |  |  |  |  |
| 20              | 8QAM           | 1              | 99                  | 22.99               | 23.00               | 22.99            |          |   |  |  |  |  |  |  |  |
| 20              | 8QAM           | 50             | 0                   | 21.72               | 21.71               | 21.46            |          |   |  |  |  |  |  |  |  |
| 20              | 8QAM           | 50             | 24                  | 21.94               | 21.95               | 21.70            | 23       | 1 |  |  |  |  |  |  |  |
| 20              | 8QAM           | 50             | 50                  | 21.97               | 21.78               | 21.48            |          |   |  |  |  |  |  |  |  |
| 20              | 8QAM           | 100            | 0                   | 21.99               | 21.98               | 21.45            |          |   |  |  |  |  |  |  |  |
| 20              | 25QAM          | 1              | 0                   | 18.99               | 18.94               | 18.93            |          |   |  |  |  |  |  |  |  |
| 20              | 25QAM          | 1              | 49                  | 18.98               | 18.96               | 18.97            | 20       | 4 |  |  |  |  |  |  |  |
| 20              | 25QAM          | 1              | 99                  | 18.98               | 18.96               | 18.94            |          |   |  |  |  |  |  |  |  |
| 20              | 25QAM          | 50             | 0                   | 18.91               | 18.90               | 18.87            |          |   |  |  |  |  |  |  |  |
| Channel         |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| Frequency (MHz) |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| 16              | QPSK           | 1              | 0                   | 23.20               | 23.08               | 22.94            |          |   |  |  |  |  |  |  |  |
| 16              | QPSK           | 1              | 37                  | 22.97               | 23.11               | 22.86            | 24       | 0 |  |  |  |  |  |  |  |
| 16              | QPSK           | 1              | 74                  | 22.77               | 22.81               | 22.62            |          |   |  |  |  |  |  |  |  |
| 16              | QPSK           | 36             | 0                   | 22.97               | 23.14               | 22.87            |          |   |  |  |  |  |  |  |  |
| 16              | QPSK           | 36             | 20                  | 23.17               | 23.12               | 22.84            | 24       | 0 |  |  |  |  |  |  |  |
| 16              | QPSK           | 36             | 39                  | 23.17               | 23.03               | 22.82            |          |   |  |  |  |  |  |  |  |
| 16              | QPSK           | 79             | 0                   | 23.11               | 23.02               | 22.89            |          |   |  |  |  |  |  |  |  |
| 16              | 16QAM          | 1              | 0                   | 23.15               | 22.81               | 22.75            |          |   |  |  |  |  |  |  |  |
| 16              | 16QAM          | 1              | 37                  | 22.99               | 23.08               | 22.82            | 24       | 0 |  |  |  |  |  |  |  |
| 16              | 16QAM          | 1              | 74                  | 22.40               | 22.70               | 22.74            |          |   |  |  |  |  |  |  |  |
| 16              | 16QAM          | 36             | 0                   | 22.95               | 23.02               | 22.86            |          |   |  |  |  |  |  |  |  |
| 16              | 16QAM          | 36             | 20                  | 23.19               | 23.16               | 22.87            | 24       | 0 |  |  |  |  |  |  |  |
| 16              | 16QAM          | 36             | 39                  | 22.92               | 23.24               | 22.97            |          |   |  |  |  |  |  |  |  |
| 16              | 16QAM          | 79             | 0                   | 22.94               | 23.20               | 22.89            |          |   |  |  |  |  |  |  |  |
| 16              | 8QAM           | 1              | 0                   | 21.84               | 21.97               | 22.87            |          |   |  |  |  |  |  |  |  |
| 16              | 8QAM           | 1              | 37                  | 22.77               | 23.08               | 22.82            | 24       | 0 |  |  |  |  |  |  |  |
| 16              | 8QAM           | 1              | 74                  | 21.88               | 21.71               | 21.69            |          |   |  |  |  |  |  |  |  |
| 16              | 8QAM           | 36             | 0                   | 21.92               | 21.92               | 21.31            |          |   |  |  |  |  |  |  |  |
| 16              | 8QAM           | 36             | 20                  | 21.92               | 21.38               | 21.47            | 23       | 1 |  |  |  |  |  |  |  |
| 16              | 8QAM           | 36             | 39                  | 21.96               | 21.85               | 21.98            |          |   |  |  |  |  |  |  |  |
| 16              | 8QAM           | 79             | 0                   | 21.84               | 21.86               | 21.85            |          |   |  |  |  |  |  |  |  |
| 16              | 25QAM          | 1              | 0                   | 18.96               | 18.96               | 18.94            |          |   |  |  |  |  |  |  |  |
| 16              | 25QAM          | 1              | 37                  | 18.93               | 18.99               | 18.97            | 20       | 4 |  |  |  |  |  |  |  |
| 16              | 25QAM          | 1              | 74                  | 18.95               | 18.92               | 18.91            |          |   |  |  |  |  |  |  |  |
| 16              | 25QAM          | 36             | 0                   | 18.96               | 18.94               | 18.97            |          |   |  |  |  |  |  |  |  |
| 16              | 25QAM          | 36             | 20                  | 18.94               | 18.98               | 18.97            | 20       | 4 |  |  |  |  |  |  |  |
| 16              | 25QAM          | 36             | 39                  | 18.98               | 18.98               | 18.94            |          |   |  |  |  |  |  |  |  |
| 16              | 25QAM          | 79             | 0                   | 18.90               | 18.98               | 18.94            |          |   |  |  |  |  |  |  |  |
| Channel         |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| Frequency (MHz) |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| 10              | QPSK           | 1              | 0                   | 23.18               | 23.12               | 22.97            |          |   |  |  |  |  |  |  |  |
| 10              | QPSK           | 1              | 25                  | 23.11               | 23.08               | 22.85            | 24       | 0 |  |  |  |  |  |  |  |
| 10              | QPSK           | 1              | 49                  | 22.77               | 23.05               | 22.92            |          |   |  |  |  |  |  |  |  |
| 10              | QPSK           | 25             | 0                   | 22.92               | 23.03               | 22.96            |          |   |  |  |  |  |  |  |  |
| 10              | QPSK           | 25             | 25                  | 23.02               | 23.08               | 22.98            |          |   |  |  |  |  |  |  |  |
| 10              | QPSK           | 25             | 25                  | 22.97               | 23.03               | 22.98            | 24       | 0 |  |  |  |  |  |  |  |
| 10              | QPSK           | 50             | 0                   | 23.15               | 23.18               | 22.79            |          |   |  |  |  |  |  |  |  |
| 10              | 16QAM          | 1              | 0                   | 23.25               | 23.81               | 22.97            |          |   |  |  |  |  |  |  |  |
| 10              | 16QAM          | 1              | 25                  | 23.12               | 23.01               | 23.03            | 24       | 0 |  |  |  |  |  |  |  |
| 10              | 16QAM          | 1              | 49                  | 22.93               | 22.85               | 22.79            |          |   |  |  |  |  |  |  |  |
| 10              | 16QAM          | 25             | 0                   | 23.13               | 23.05               | 22.98            |          |   |  |  |  |  |  |  |  |
| 10              | 16QAM          | 25             | 12                  | 23.03               | 23.12               | 22.98            | 24       | 0 |  |  |  |  |  |  |  |
| 10              | 16QAM          | 25             | 25                  | 22.81               | 23.07               | 22.89            |          |   |  |  |  |  |  |  |  |
| 10              | 16QAM          | 50             | 0                   | 22.84               | 23.05               | 23.02            |          |   |  |  |  |  |  |  |  |
| 10              | 8QAM           | 1              | 0                   | 22.71               | 23.00               | 22.98            |          |   |  |  |  |  |  |  |  |
| 10              | 8QAM           | 1              | 25                  | 22.98               | 23.06               | 23.08            | 24       | 0 |  |  |  |  |  |  |  |
| 10              | 8QAM           | 1              | 49                  | 22.44               | 22.87               | 22.74            |          |   |  |  |  |  |  |  |  |
| 10              | 8QAM           | 25             | 0                   | 21.85               | 21.85               | 21.25            |          |   |  |  |  |  |  |  |  |
| 10              | 8QAM           | 25             | 12                  | 21.89               | 21.77               | 21.70            | 23       | 1 |  |  |  |  |  |  |  |
| 10              | 8QAM           | 25             | 25                  | 21.72               | 21.81               | 21.52            |          |   |  |  |  |  |  |  |  |
| 10              | 8QAM           | 50             | 0                   | 21.81               | 21.81               | 21.30            |          |   |  |  |  |  |  |  |  |
| 10              | 25QAM          | 1              | 0                   | 18.90               | 18.95               | 18.93            |          |   |  |  |  |  |  |  |  |
| 10              | 25QAM          | 1              | 25                  | 18.79               | 18.96               | 18.90            | 20       | 4 |  |  |  |  |  |  |  |
| 10              | 25QAM          | 1              | 49                  | 18.96               | 18.97               | 18.95            |          |   |  |  |  |  |  |  |  |
| 10              | 25QAM          | 25             | 0                   | 18.97               | 18.98               | 18.93            |          |   |  |  |  |  |  |  |  |
| 10              | 25QAM          | 25             | 12                  | 18.96               | 18.96               | 18.96            | 20       | 4 |  |  |  |  |  |  |  |
| 10              | 25QAM          | 25             | 25                  | 18.99               | 18.94               | 18.95            |          |   |  |  |  |  |  |  |  |
| 10              | 25QAM          | 50             | 0                   | 18.91               | 18.98               | 18.96            |          |   |  |  |  |  |  |  |  |
| Channel         |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| Frequency (MHz) |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| 5               | QPSK           | 1              | 0                   | 22.99               | 23.18               | 22.94            |          |   |  |  |  |  |  |  |  |
| 5               | QPSK           | 1              | 12                  | 23.13               | 23.06               | 22.96            | 24       | 0 |  |  |  |  |  |  |  |
| 5               | QPSK           | 1              | 24                  | 22.94               | 23.00               | 22.83            |          |   |  |  |  |  |  |  |  |
| 5               | QPSK           | 12             | 0                   | 23.06               | 23.01               | 22.86            |          |   |  |  |  |  |  |  |  |
| 5               | QPSK           | 12             | 7                   | 23.10               | 23.12               | 22.94            |          |   |  |  |  |  |  |  |  |
| 5               | QPSK           | 12             | 13                  | 23.13               | 23.02               | 22.78            | 24       | 0 |  |  |  |  |  |  |  |
| 5               | QPSK           | 25             | 0                   | 22.95               | 23.11               | 22.72            |          |   |  |  |  |  |  |  |  |
| 5               | 16QAM          | 1              | 0                   | 23.25               | 23.82               | 22.79            |          |   |  |  |  |  |  |  |  |
| 5               | 16QAM          | 1              | 12                  | 22.97               | 23.79               | 22.91            | 24       | 0 |  |  |  |  |  |  |  |
| 5               | 16QAM          | 1              | 24                  | 22.88               | 22.80               | 22.84            |          |   |  |  |  |  |  |  |  |
| 5               | 16QAM          | 12             | 0                   | 22.84               | 23.04               | 22.86            |          |   |  |  |  |  |  |  |  |
| 5               | 16QAM          | 12             | 7                   | 23.20               | 23.04               | 22.84            |          |   |  |  |  |  |  |  |  |
| 5               | 16QAM          | 12             | 13                  | 23.01               | 23.11               | 22.91            | 24       | 0 |  |  |  |  |  |  |  |
| 5               | 16QAM          | 25             | 0                   | 22.70               | 23.24               | 23.08            |          |   |  |  |  |  |  |  |  |
| 5               | 8QAM           | 1              | 0                   | 22.93               | 23.78               | 23.13            |          |   |  |  |  |  |  |  |  |
| 5               | 8QAM           | 1              | 12                  | 22.91               | 23.13               | 22.91            | 24       | 0 |  |  |  |  |  |  |  |
| 5               | 8QAM           | 1              | 24                  | 22.94               | 22.82               | 22.98            |          |   |  |  |  |  |  |  |  |
| 5               | 8QAM           | 12             | 0                   | 21.92               | 21.43               | 21.89            |          |   |  |  |  |  |  |  |  |
| 5               | 8QAM           | 12             | 7                   | 21.88               | 21.77               | 21.71            |          |   |  |  |  |  |  |  |  |
| 5               | 8QAM           | 12             | 13                  | 21.82               | 21.66               | 21.50            | 23       | 1 |  |  |  |  |  |  |  |
| 5               | 8QAM           | 25             | 0                   | 21.97               | 21.79               | 21.55            |          |   |  |  |  |  |  |  |  |
| 5               | 25QAM          | 1              | 0                   | 18.99               | 18.93               | 18.91            |          |   |  |  |  |  |  |  |  |
| 5               | 25QAM          | 1              | 12                  | 18.99               | 18.93               | 18.90            | 20       | 4 |  |  |  |  |  |  |  |
| 5               | 25QAM          | 1              | 24                  | 18.97               | 18.97               | 18.96            |          |   |  |  |  |  |  |  |  |
| 5               | 25QAM          | 12             | 0                   | 18.96               | 18.93               | 18.96            |          |   |  |  |  |  |  |  |  |
| 5               | 25QAM          | 12             | 7                   | 18.90               | 18.93               | 18.79            | 20       | 4 |  |  |  |  |  |  |  |
| 5               | 25QAM          | 12             | 13                  | 18.96               | 18.91               | 18.96            |          |   |  |  |  |  |  |  |  |
| 5               | 25QAM          | 25             | 0                   | 18.97               | 18.94               | 18.96            |          |   |  |  |  |  |  |  |  |
| Channel         |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| Frequency (MHz) |                |                |                     |                     |                     |                  |          |   |  |  |  |  |  |  |  |
| 1.4             | QPSK           | 1              | 0                   | 22.99               | 23.18               | 22.88            |          |   |  |  |  |  |  |  |  |
| 1.4             | QPSK           | 1              | 3                   | 23.26               | 23.12               | 23.02            |          |   |  |  |  |  |  |  |  |
| 1.4             | QPSK           | 1              | 6                   | 23.00               | 23.01               | 23.05            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | QPSK           | 1              | 9                   | 23.07               | 23.03               | 23.07            |          |   |  |  |  |  |  |  |  |
| 1.4             | QPSK           | 3              | 0                   | 23.04               | 23.22               | 23.04            |          |   |  |  |  |  |  |  |  |
| 1.4             | QPSK           | 3              | 3                   | 23.04               | 23.07               | 22.83            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | QPSK           | 3              | 6                   | 23.17               | 23.14               | 22.92            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 1              | 0                   | 23.20               | 23.81               | 22.93            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 1              | 3                   | 23.26               | 23.27               | 23.09            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 1              | 6                   | 23.26               | 23.27               | 23.09            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 1              | 9                   | 23.26               | 23.27               | 23.09            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 3              | 0                   | 23.25               | 23.31               | 23.11            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 3              | 3                   | 23.08               | 23.09               | 22.80            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 3              | 6                   | 23.18               | 23.19               | 22.90            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 0                   | 23.03               | 23.04               | 22.75            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 3                   | 23.07               | 23.08               | 22.79            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 6                   | 23.07               | 23.08               | 22.79            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 9                   | 23.03               | 23.05               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 12                  | 23.02               | 23.04               | 22.86            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 15                  | 23.04               | 23.04               | 22.87            | 23       | 1 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 18                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 21                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 24                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 27                  | 23.04               | 23.04               | 22.87            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 30                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 33                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 36                  | 23.04               | 23.04               | 22.87            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 39                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 42                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 45                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 48                  | 23.04               | 23.04               | 22.87            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 51                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 54                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 57                  | 23.04               | 23.04               | 22.87            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 60                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 63                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 66                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 69                  | 23.04               | 23.04               | 22.87            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 72                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 75                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 78                  | 23.04               | 23.04               | 22.87            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 81                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 84                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 87                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 90                  | 23.04               | 23.04               | 22.87            | 24       | 0 |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 93                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 96                  | 23.04               | 23.04               | 22.87            |          |   |  |  |  |  |  |  |  |
| 1.4             | 16QAM          | 6              | 99                  | 23.04               |                     |                  |          |   |  |  |  |  |  |  |  |



| Band 38_Ant 1   |            |         |           |                       |                        |                        |                     |           |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|-----------|--|
| EW (MHz)        | Modulation | RF Band | RF Offset | Power Low Ch. (Freq.) | Power High Ch. (Freq.) | Power High Ch. (Freq.) | Turn-on time (secs) | APRS (dB) |  |
| Channel         |            |         |           |                       |                        |                        |                     |           |  |
| Frequency (MHz) |            |         |           | 37850                 | 38050                  | 38150                  |                     |           |  |
| 20              | QPSK       | 1       | 0         | 21.57                 | 21.69                  | 21.38                  |                     |           |  |
| 20              | QPSK       | 1       | 40        | 21.70                 | 21.75                  | 21.52                  | 23                  | 0         |  |
| 20              | QPSK       | 80      | 80        | 21.56                 | 21.68                  | 21.40                  |                     |           |  |
| 20              | QPSK       | 50      | 0         | 21.67                 | 21.68                  | 21.58                  |                     |           |  |
| 20              | QPSK       | 90      | 24        | 21.67                 | 21.72                  | 21.55                  | 23                  | 0         |  |
| 20              | QPSK       | 50      | 50        | 21.63                 | 21.61                  | 21.45                  |                     |           |  |
| 20              | QPSK       | 50      | 0         | 21.58                 | 21.70                  | 21.53                  |                     |           |  |
| 20              | WQAM       | 1       | 0         | 21.31                 | 21.50                  | 21.44                  |                     |           |  |
| 20              | WQAM       | 1       | 40        | 21.64                 | 21.70                  | 21.53                  | 23                  | 0         |  |
| 20              | WQAM       | 1       | 80        | 21.40                 | 21.33                  | 21.33                  |                     |           |  |
| 20              | WQAM       | 50      | 0         | 21.55                 | 21.53                  | 21.38                  |                     |           |  |
| 20              | WQAM       | 50      | 24        | 21.41                 | 21.56                  | 21.52                  | 23                  | 0         |  |
| 20              | WQAM       | 50      | 50        | 21.40                 | 21.44                  | 21.54                  |                     |           |  |
| 20              | WQAM       | 100     | 0         | 21.23                 | 21.42                  | 21.58                  |                     |           |  |
| 20              | WQAM       | 1       | 0         | 21.43                 | 21.27                  | 21.26                  |                     |           |  |
| 20              | WQAM       | 1       | 40        | 21.44                 | 21.71                  | 21.45                  | 23                  | 0         |  |
| 20              | WQAM       | 1       | 80        | 21.60                 | 21.60                  | 21.54                  |                     |           |  |
| 20              | WQAM       | 50      | 0         | 20.30                 | 20.31                  | 20.44                  |                     |           |  |
| 20              | WQAM       | 50      | 24        | 20.59                 | 20.45                  | 20.80                  | 22                  | 1         |  |
| 20              | WQAM       | 50      | 50        | 20.40                 | 20.44                  | 20.51                  |                     |           |  |
| 20              | WQAM       | 100     | 0         | 20.39                 | 20.85                  | 20.44                  |                     |           |  |
| 20              | DSSS/JAM   | 1       | 0         | 18.58                 | 18.58                  | 18.57                  |                     |           |  |
| 20              | DSSS/JAM   | 1       | 80        | 17.80                 | 17.80                  | 17.80                  | 19                  | 4         |  |
| 20              | DSSS/JAM   | 1       | 90        | 17.93                 | 18.01                  | 17.97                  |                     |           |  |
| 20              | DSSS/JAM   | 90      | 0         | 18.08                 | 18.09                  | 18.07                  |                     |           |  |
| 20              | DSSS/JAM   | 90      | 24        | 17.84                 | 18.00                  | 17.98                  | 19                  | 4         |  |
| 20              | DSSS/JAM   | 90      | 50        | 17.84                 | 17.97                  | 17.90                  |                     |           |  |
| 20              | DSSS/JAM   | 100     | 0         | 17.97                 | 18.01                  | 17.88                  |                     |           |  |
| Channel         |            |         |           |                       |                        |                        |                     |           |  |
| Frequency (MHz) |            |         |           | 37825                 | 38050                  | 38175                  | Turn-on time (secs) | APRS (dB) |  |
| 15              | QPSK       | 1       | 0         | 21.62                 | 21.27                  | 21.47                  |                     |           |  |
| 15              | QPSK       | 1       | 37        | 21.69                 | 21.56                  | 21.54                  | 23                  | 0         |  |
| 15              | QPSK       | 1       | 74        | 21.60                 | 21.62                  | 21.38                  |                     |           |  |
| 15              | QPSK       | 1       | 80        | 21.37                 | 21.52                  | 21.74                  |                     |           |  |
| 15              | QPSK       | 36      | 20        | 21.65                 | 21.69                  | 21.34                  | 23                  | 0         |  |
| 15              | QPSK       | 36      | 30        | 21.49                 | 21.52                  | 21.44                  |                     |           |  |
| 15              | QPSK       | 1       | 0         | 21.36                 | 21.39                  | 21.35                  |                     |           |  |
| 15              | WQAM       | 1       | 0         | 21.14                 | 21.29                  | 21.28                  |                     |           |  |
| 15              | WQAM       | 1       | 37        | 21.43                 | 21.51                  | 21.38                  | 23                  | 0         |  |
| 15              | WQAM       | 1       | 74        | 21.10                 | 21.37                  | 21.49                  |                     |           |  |
| 15              | WQAM       | 1       | 80        | 21.36                 | 21.46                  | 21.25                  |                     |           |  |
| 15              | WQAM       | 36      | 20        | 21.23                 | 21.43                  | 21.35                  | 23                  | 0         |  |
| 15              | WQAM       | 36      | 30        | 21.13                 | 21.41                  | 21.57                  |                     |           |  |
| 15              | WQAM       | 1       | 0         | 21.36                 | 21.18                  | 21.30                  |                     |           |  |
| 15              | WQAM       | 1       | 0         | 21.18                 | 21.21                  | 21.31                  |                     |           |  |
| 15              | WQAM       | 1       | 37        | 21.51                 | 21.52                  | 21.31                  | 23                  | 0         |  |
| 15              | WQAM       | 1       | 74        | 20.29                 | 20.29                  | 20.25                  |                     |           |  |
| 15              | WQAM       | 36      | 0         | 20.27                 | 20.13                  | 20.25                  |                     |           |  |
| 15              | WQAM       | 36      | 20        | 20.48                 | 20.30                  | 20.38                  | 22                  | 1         |  |
| 15              | WQAM       | 36      | 30        | 20.34                 | 20.16                  | 20.54                  |                     |           |  |
| 15              | WQAM       | 1       | 0         | 20.31                 | 20.03                  | 20.38                  |                     |           |  |
| 15              | DSSS/JAM   | 1       | 0         | 18.00                 | 18.08                  | 18.07                  |                     |           |  |
| 15              | DSSS/JAM   | 1       | 37        | 17.97                 | 18.01                  | 17.92                  | 19                  | 4         |  |
| 15              | DSSS/JAM   | 1       | 74        | 17.80                 | 17.91                  | 17.85                  |                     |           |  |
| 15              | DSSS/JAM   | 36      | 0         | 17.88                 | 18.09                  | 18.02                  |                     |           |  |
| 15              | DSSS/JAM   | 36      | 20        | 17.82                 | 17.96                  | 17.83                  | 19                  | 4         |  |
| 15              | DSSS/JAM   | 36      | 30        | 17.80                 | 17.90                  | 17.87                  |                     |           |  |
| 15              | DSSS/JAM   | 75      | 0         | 17.88                 | 17.94                  | 17.81                  |                     |           |  |
| Channel         |            |         |           |                       |                        |                        |                     |           |  |
| Frequency (MHz) |            |         |           | 37800                 | 38050                  | 38200                  | Turn-on time (secs) | APRS (dB) |  |
| 10              | QPSK       | 1       | 0         | 21.57                 | 21.53                  | 21.53                  |                     |           |  |
| 10              | QPSK       | 1       | 25        | 21.72                 | 21.72                  | 21.55                  | 23                  | 0         |  |
| 10              | QPSK       | 1       | 40        | 21.39                 | 21.48                  | 21.30                  |                     |           |  |
| 10              | QPSK       | 25      | 0         | 21.60                 | 21.58                  | 21.30                  |                     |           |  |
| 10              | QPSK       | 12      | 12        | 21.45                 | 21.45                  | 21.41                  | 23                  | 0         |  |
| 10              | QPSK       | 25      | 25        | 21.68                 | 21.44                  | 21.36                  |                     |           |  |
| 10              | QPSK       | 50      | 0         | 21.32                 | 21.63                  | 21.53                  |                     |           |  |
| 10              | WQAM       | 1       | 0         | 21.12                 | 21.12                  | 21.18                  |                     |           |  |
| 10              | WQAM       | 1       | 25        | 21.50                 | 21.73                  | 21.37                  | 23                  | 0         |  |
| 10              | WQAM       | 1       | 40        | 21.12                 | 21.44                  | 21.58                  |                     |           |  |
| 10              | WQAM       | 1       | 0         | 21.38                 | 21.04                  | 21.28                  |                     |           |  |
| 10              | WQAM       | 1       | 25        | 21.38                 | 21.56                  | 21.45                  | 23                  | 0         |  |
| 10              | WQAM       | 1       | 40        | 21.59                 | 21.49                  | 21.48                  |                     |           |  |
| 10              | WQAM       | 25      | 0         | 20.14                 | 20.10                  | 20.27                  |                     |           |  |
| 10              | WQAM       | 25      | 12        | 20.32                 | 20.23                  | 20.48                  | 22                  | 1         |  |
| 10              | WQAM       | 25      | 25        | 20.42                 | 20.49                  | 20.31                  |                     |           |  |
| 10              | WQAM       | 50      | 0         | 20.43                 | 20.30                  | 20.39                  |                     |           |  |
| 10              | DSSS/JAM   | 1       | 0         | 18.09                 | 17.79                  | 17.81                  |                     |           |  |
| 10              | DSSS/JAM   | 1       | 25        | 17.91                 | 18.03                  | 17.88                  | 19                  | 4         |  |
| 10              | DSSS/JAM   | 1       | 40        | 17.84                 | 17.92                  | 17.79                  |                     |           |  |
| 10              | DSSS/JAM   | 25      | 0         | 18.03                 | 18.07                  | 18.08                  |                     |           |  |
| 10              | DSSS/JAM   | 25      | 12        | 17.91                 | 18.04                  | 17.85                  | 19                  | 4         |  |
| 10              | DSSS/JAM   | 25      | 25        | 17.74                 | 17.90                  | 17.80                  |                     |           |  |
| 10              | DSSS/JAM   | 50      | 0         | 17.82                 | 17.88                  | 17.88                  |                     |           |  |
| Channel         |            |         |           |                       |                        |                        |                     |           |  |
| Frequency (MHz) |            |         |           | 37775                 | 38050                  | 38225                  | Turn-on time (secs) | APRS (dB) |  |
| 5               | QPSK       | 1       | 0         | 21.51                 | 21.26                  | 21.44                  |                     |           |  |
| 5               | QPSK       | 12      | 12        | 21.67                 | 21.52                  | 21.44                  | 23                  | 0         |  |
| 5               | QPSK       | 1       | 24        | 21.70                 | 21.43                  | 21.47                  |                     |           |  |
| 5               | QPSK       | 12      | 0         | 21.51                 | 21.36                  | 21.44                  |                     |           |  |
| 5               | QPSK       | 12      | 7         | 21.42                 | 21.69                  | 21.42                  |                     |           |  |
| 5               | QPSK       | 12      | 13        | 21.60                 | 21.71                  | 21.51                  | 23                  | 0         |  |
| 5               | QPSK       | 25      | 0         | 21.42                 | 21.69                  | 21.24                  |                     |           |  |
| 5               | WQAM       | 1       | 0         | 21.29                 | 21.59                  | 21.44                  |                     |           |  |
| 5               | WQAM       | 1       | 12        | 21.67                 | 21.62                  | 21.37                  | 23                  | 0         |  |
| 5               | WQAM       | 1       | 24        | 21.44                 | 21.49                  | 21.41                  |                     |           |  |
| 5               | WQAM       | 12      | 0         | 21.30                 | 21.41                  | 21.27                  |                     |           |  |
| 5               | WQAM       | 12      | 13        | 21.20                 | 21.40                  | 21.51                  | 23                  | 0         |  |
| 5               | WQAM       | 25      | 0         | 21.13                 | 21.55                  | 21.58                  |                     |           |  |
| 5               | WQAM       | 25      | 0         | 21.18                 | 21.43                  | 21.44                  |                     |           |  |
| 5               | WQAM       | 1       | 0         | 21.23                 | 21.04                  | 21.28                  |                     |           |  |
| 5               | WQAM       | 1       | 12        | 21.17                 | 21.67                  | 21.31                  | 23                  | 0         |  |
| 5               | WQAM       | 1       | 24        | 21.67                 | 21.40                  | 21.80                  |                     |           |  |
| 5               | WQAM       | 12      | 0         | 20.87                 | 20.38                  | 20.33                  |                     |           |  |
| 5               | WQAM       | 12      | 7         | 20.54                 | 20.30                  | 20.52                  | 22                  | 1         |  |
| 5               | WQAM       | 12      | 13        | 20.47                 | 20.36                  | 20.23                  |                     |           |  |
| 5               | WQAM       | 25      | 0         | 20.30                 | 20.54                  | 20.24                  |                     |           |  |
| 5               | DSSS/JAM   | 1       | 0         | 18.00                 | 18.02                  | 18.04                  |                     |           |  |
| 5               | DSSS/JAM   | 1       | 12        | 18.00                 | 18.03                  | 17.87                  | 19                  | 4         |  |
| 5               | DSSS/JAM   | 1       | 24        | 17.91                 | 17.98                  | 17.88                  |                     |           |  |
| 5               | DSSS/JAM   | 25      | 0         | 17.80                 | 17.86                  | 17.86                  |                     |           |  |
| 5               | DSSS/JAM   | 12      | 7         | 17.89                 | 18.03                  | 17.94                  | 19                  | 4         |  |
| 5               | DSSS/JAM   | 12      | 13        | 17.79                 | 17.91                  | 17.87                  |                     |           |  |
| 5               | DSSS/JAM   | 25      | 0         | 17.94                 | 18.00                  | 17.75                  |                     |           |  |

| Band 38_Ant 2   |            |         |           |                       |                        |                      |                     |           |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------|----------------------|---------------------|-----------|--|
| EW (MHz)        | Modulation | RF Band | RF Offset | Power Low Ch. (Freq.) | Power High Ch. (Freq.) | Power High Ch. (dBm) | Turn-on time (secs) | APRS (dB) |  |
| Channel         |            |         |           |                       |                        |                      |                     |           |  |
| Frequency (MHz) |            |         |           |                       |                        |                      |                     |           |  |
|                 |            |         |           | 37850                 | 38050                  | 38150                |                     |           |  |
| 20              | QPSK       | 1       | 0         | 22.71                 | 22.91                  | 22.58                |                     |           |  |
| 20              | QPSK       | 1       | 40        | 22.85                 | 22.97                  | 22.87                | 24                  | 0         |  |
| 20              | QPSK       | 80      | 80        | 22.82                 | 22.88                  | 22.81                |                     |           |  |
| 20              | QPSK       | 50      | 0         | 22.58                 | 22.82                  | 22.52                |                     |           |  |
| 20              | QPSK       | 90      | 24        | 22.55                 | 22.95                  | 22.63                | 24                  | 0         |  |
| 20              | QPSK       | 50      | 50        | 22.75                 | 22.80                  | 22.83                |                     |           |  |
| 20              | QPSK       | 50      | 0         | 22.80                 | 22.83                  | 22.81                |                     |           |  |
| 20              | WQAM       | 1       | 0         | 22.78                 | 22.95                  | 22.94                |                     |           |  |
| 20              | WQAM       | 1       | 40        | 22.79                 | 22.78                  | 22.59                | 24                  | 0         |  |
| 20              | WQAM       | 1       | 80        | 22.70                 | 22.72                  | 22.33                |                     |           |  |
| 20              | WQAM       | 50      | 0         | 22.33                 | 22.79                  | 22.24                |                     |           |  |
| 20              | WQAM       | 50      | 24        | 22.65                 | 22.78                  | 22.69                | 24                  | 0         |  |
| 20              | WQAM       | 50      | 50        | 22.72                 | 22.71                  | 22.44                |                     |           |  |
| 20              | WQAM       | 100     | 0         | 22.88                 | 22.82                  | 22.52                |                     |           |  |
| 20              | WQAM       | 1       | 0         | 22.50                 | 22.81                  | 22.30                |                     |           |  |
| 20              | WQAM       | 1       | 40        | 22.85                 | 22.76                  | 22.73                | 24                  | 0         |  |
| 20              | WQAM       | 1       | 80        | 22.60                 | 22.87                  | 22.80                |                     |           |  |
| 20              | WQAM       | 50      | 0         | 21.66                 | 21.80                  | 21.37                |                     |           |  |
| 20              | WQAM       | 50      | 24        | 21.81                 | 22.01                  | 21.59                | 23                  | 1         |  |
| 20              | WQAM       | 50      | 50        | 18.90                 | 19.15                  | 19.03                |                     |           |  |
| 20              | DSSS/JAM   | 1       | 0         | 18.24                 | 19.28                  | 19.03                |                     |           |  |
| 20              | DSSS/JAM   | 1       | 80        | 18.10                 | 19.15                  | 19.08                | 20                  | 4         |  |
| 20              | DSSS/JAM   | 1       | 90        | 18.99                 | 19.99                  | 19.88                |                     |           |  |
| 20              | DSSS/JAM   | 90      | 0         | 19.23                 | 19.28                  | 19.25                |                     |           |  |
| 20              | DSSS/JAM   | 90      | 24        | 18.88                 | 19.02                  | 18.94                | 20                  | 4         |  |
| 20              | DSSS/JAM   | 90      | 50        | 19.10                 | 19.16                  | 19.08                |                     |           |  |
| 20              | DSSS/JAM   | 100     | 0         | 19.02                 | 19.03                  | 18.93                |                     |           |  |
| Channel         |            |         |           |                       |                        |                      |                     |           |  |
| Frequency (MHz) |            |         |           |                       |                        |                      |                     |           |  |
|                 |            |         |           | 37825                 | 38050                  | 38175                | Turn-on time (secs) | APRS (dB) |  |
| 15              | QPSK       | 1       | 0         | 22.43                 | 22.92                  | 22.73                |                     |           |  |
| 15              | QPSK       | 1       | 30        | 22.65                 | 22.91                  | 22.73                |                     |           |  |
| 15              | QPSK       | 1       | 70        | 22.50                 | 22.63                  | 22.41                | 24                  | 0         |  |
| 15              | QPSK       | 30      | 0         | 22.55                 | 22.77                  | 22.54                |                     |           |  |
| 15              | QPSK       | 30      | 20        | 22.68                 | 22.72                  | 22.54                |                     |           |  |
| 15              | QPSK       | 30      | 30        | 22.83                 | 22.81                  | 22.79                |                     |           |  |
| 15              | QPSK       | 70      | 0         | 22.79                 | 22.72                  | 22.33                |                     |           |  |
| 15              | WQAM       | 1       | 0         | 22.50                 | 22.83                  | 22.30                |                     |           |  |
| 15              | WQAM       | 1       | 30        | 22.64                 | 22.67                  | 22.60                |                     |           |  |
| 15              | WQAM       | 1       | 70        | 22.78                 | 22.80                  | 22.21                | 24                  | 0         |  |
| 15              | WQAM       | 30      | 0         | 22.55                 | 22.82                  | 22.58                |                     |           |  |
| 15              | WQAM       | 30      | 20        | 22.37                 | 22.78                  | 22.24                |                     |           |  |
| 15              | WQAM       | 30      | 30        | 22.64                 | 22.68                  | 22.38                |                     |           |  |
| 15              | WQAM       | 70      | 0         | 22.68                 | 22.62                  | 22.25                |                     |           |  |
| 15              | WQAM       | 1       | 0         | 22.53                 | 22.87                  | 22.32                |                     |           |  |
| 15              | WQAM       | 1       | 30        | 22.61                 | 22.53                  | 22.38                | 24                  | 0         |  |
| 15              | WQAM       | 1       | 70        | 22.74                 | 22.53                  | 22.40                |                     |           |  |
| 15              | WQAM       | 30      | 0         | 22.48                 | 22.83                  | 21.62                |                     |           |  |
| 15              | WQAM       | 30      | 20        | 21.82                 | 22.08                  | 21.40                | 23                  | 1         |  |
| 15              | WQAM       | 30      | 30        | 21.68                 | 21.72                  | 21.44                |                     |           |  |
| 15              | WQAM       | 70      | 0         | 21.71                 | 21.79                  | 21.37                |                     |           |  |
| 15              | DSSS/JAM   | 1       | 0         | 19.14                 | 19.07                  | 18.97                |                     |           |  |
| 15              | DSSS/JAM   | 1       | 30        | 19.96                 | 19.18                  | 19.10                | 20                  | 4         |  |
| 15              | DSSS/JAM   | 1       | 70        | 19.00                 | 18.88                  | 18.95                |                     |           |  |
| 15              | DSSS/JAM   | 30      | 0         | 19.18                 | 19.14                  | 19.14                |                     |           |  |
| 15              | DSSS/JAM   | 30      | 20        | 19.31                 | 19.07                  | 19.05                | 20                  | 4         |  |
| 15              | DSSS/JAM   | 30      | 30        | 19.04                 | 19.07                  | 19.02                |                     |           |  |
| 15              | DSSS/JAM   | 70      | 0         | 19.00                 | 18.98                  | 18.96                |                     |           |  |
| Channel         |            |         |           |                       |                        |                      |                     |           |  |
| Frequency (MHz) |            |         |           |                       |                        |                      |                     |           |  |
|                 |            |         |           | 37800                 | 38050                  | 38200                | Turn-on time (secs) | APRS (dB) |  |
| 10              | QPSK       | 1       | 0         | 22.59                 | 22.95                  | 22.71                |                     |           |  |
| 10              | QPSK       | 1       | 40        | 22.83                 | 22.91                  | 22.81                | 24                  | 0         |  |
| 10              | QPSK       | 1       | 40        | 22.55                 | 22.58                  | 22.51                |                     |           |  |
| 10              | QPSK       | 25      | 0         | 22.35                 | 22.66                  | 22.46                |                     |           |  |
| 10              | QPSK       | 25      | 10        | 22.68                 | 22.52                  | 22.43                | 24                  | 0         |  |
| 10              | QPSK       | 25      | 20        | 22.83                 | 22.83                  | 22.83                |                     |           |  |
| 10              | QPSK       | 50      | 0         | 22.59                 | 22.78                  | 22.63                |                     |           |  |
| 10              | WQAM       | 1       | 0         | 22.70                 | 22.92                  | 22.94                |                     |           |  |
| 10              | WQAM       | 1       | 40        | 22.79                 | 22.78                  | 22.59                | 24                  | 0         |  |
| 10              | WQAM       | 1       | 40        | 22.81                 | 22.77                  | 22.54                |                     |           |  |
| 10              | WQAM       | 25      | 0         | 22.19                 | 22.65                  | 22.09                |                     |           |  |
| 10              | WQAM       | 25      | 10        | 22.68                 | 22.51                  | 22.41                | 24                  | 0         |  |
| 10              | WQAM       | 25      | 20        | 22.76                 | 22.77                  | 22.43                |                     |           |  |
| 10              | WQAM       | 50      | 0         | 22.63                 | 22.79                  | 22.48                |                     |           |  |
| 10              | WQAM       | 1       | 0         | 22.64                 | 22.93                  | 22.46                | 24                  | 0         |  |
| 10              | WQAM       | 1       | 40        | 22.80                 | 22.54                  | 22.30                |                     |           |  |
| 10              | WQAM       | 25      | 0         | 21.41                 | 21.73                  | 21.59                | 23                  | 1         |  |
| 10              | WQAM       | 25      | 10        | 21.80                 | 21.62                  | 21.45                |                     |           |  |
| 10              | WQAM       | 25      | 20        | 21.84                 | 21.62                  | 21.45                |                     |           |  |
| 10              | WQAM       | 50      | 0         | 21.70                 | 21.84                  | 21.60                |                     |           |  |
| 10              | DSSS/JAM   | 1       | 0         | 19.10                 | 19.01                  | 19.00                |                     |           |  |
| 10              | DSSS/JAM   | 1       | 40        | 19.03                 | 19.03                  | 19.03                | 20                  | 4         |  |
| 10              | DSSS/JAM   | 1       | 40        | 18.86                 | 18.85                  | 18.86                |                     |           |  |
| 10              | DSSS/JAM   | 25      | 0         | 19.19                 | 19.24                  | 19.20                |                     |           |  |
| 10              | DSSS/JAM   | 25      | 10        | 19.05                 | 19.05                  | 19.05                | 20                  | 4         |  |
| 10              | DSSS/JAM   | 25      | 20        | 19.00                 | 19.00                  | 19.00                |                     |           |  |
| 10              | DSSS/JAM   | 50      | 0         | 18.95                 | 18.93                  | 18.90                |                     |           |  |
| Channel         |            |         |           |                       |                        |                      |                     |           |  |
| Frequency (MHz) |            |         |           |                       |                        |                      |                     |           |  |
|                 |            |         |           | 37775                 | 38050                  | 38225                | Turn-on time (secs) | APRS (dB) |  |
| 5               | QPSK       | 1       | 0         | 22.48                 | 22.71                  | 22.80                |                     |           |  |
| 5               | QPSK       | 1       | 10        | 22.68                 | 22.79                  | 22.48                | 24                  | 0         |  |
| 5               | QPSK       | 25      | 24        | 22.74                 | 22.92                  | 22.48                |                     |           |  |
| 5               | QPSK       | 12      | 0         | 22.68                 | 22.79                  | 22.40                |                     |           |  |
| 5               | QPSK       | 12      | 7         | 22.84                 | 22.84                  | 22.72                |                     |           |  |
| 5               | QPSK       | 12      | 15        | 22.72                 | 22.67                  | 22.39                |                     |           |  |
| 5               | WQAM       | 1       | 0         | 22.74                 | 22.90                  | 22.91                |                     |           |  |
| 5               | WQAM       | 1       | 0         | 22.67                 | 22.85                  | 22.51                |                     |           |  |
| 5               | WQAM       | 1       | 10        | 22.60                 | 22.72                  | 22.51                | 24                  | 0         |  |
| 5               | WQAM       | 1       | 20        | 22.68                 | 22.68                  | 22.68                |                     |           |  |
| 5               | WQAM       | 12      | 0         | 22.52                 | 22.88                  | 22.22                |                     |           |  |
| 5               | WQAM       | 12      | 7         | 22.46                 | 22.69                  | 22.68                | 24                  | 0         |  |
| 5               | WQAM       | 12      | 15        | 22.74                 | 22.69                  | 22.10                |                     |           |  |
| 5               | WQAM       | 25      | 0         | 22.74                 | 22.61                  | 22.40                |                     |           |  |
| 5               | WQAM       | 1       | 0         | 22.43                 | 22.40                  | 22.10                |                     |           |  |
| 5               | WQAM       | 1       | 10        | 22.80                 | 22.81                  | 22.83                |                     |           |  |
| 5               | WQAM       | 1       | 20        | 22.67                 | 22.67                  | 22.67                |                     |           |  |
| 5               | WQAM       | 12      | 0         | 21.50                 | 21.53                  | 21.51                |                     |           |  |
| 5               | WQAM       | 12      | 7         | 21.71                 | 21.80                  | 21.80                | 23                  | 1         |  |
| 5               | WQAM       | 12      | 15        | 21.84                 | 21.62                  | 21.58                |                     |           |  |
| 5               | DSSS/JAM   | 1       | 0         | 19.18                 | 19.08                  | 19.08                |                     |           |  |
| 5               | DSSS/JAM   | 1       | 0         | 19.02                 | 19.16                  | 18.82                | 20                  | 4         |  |
| 5               | DSSS/JAM   | 1       | 10        | 19.05                 | 19.13                  | 19.10                |                     |           |  |
| 5               | DSSS/JAM   | 12      | 0         | 19.02                 | 19.02                  | 18.98                |                     |           |  |
| 5               | DSSS/JAM   | 12      | 7         | 19.13                 | 19.13                  | 19.12                |                     |           |  |
| 5               | DSSS/JAM   | 12      | 7         | 18.90                 | 19.04                  | 19.02                | 20                  | 4         |  |
| 5               | DSSS/JAM   | 12      | 15        | 19.00                 | 19.12                  | 19.05                |                     |           |  |
| 5               | DSSS/JAM   | 12      | 15        | 18.90                 | 18.90                  | 18.95                |                     |           |  |



MINISTRY OF NATIONAL DEFENSE  
SİHAFA 1

| Band 41 (HPUE)_Ant 1 |            |         |           |                              |                                  |                              |                                   |                               |              |          |      |   |              |          |  |
|----------------------|------------|---------|-----------|------------------------------|----------------------------------|------------------------------|-----------------------------------|-------------------------------|--------------|----------|------|---|--------------|----------|--|
| SW (MHz)             | Modulation | RF Band | RF Offset | Power Low Freq (Ch./17 Freq) | Power Low-Mid Freq (Ch./17 Freq) | Power Mid Freq (Ch./17 Freq) | Power High-Mid Freq (Ch./17 Freq) | Power High Freq (Ch./17 Freq) | Turn-up (dB) | MPN (dB) |      |   |              |          |  |
| Channel              |            |         |           |                              |                                  |                              |                                   |                               |              |          |      |   |              |          |  |
| Frequency (MHz)      |            |         |           | 3670                         | 40185                            | 46005                        | 41055                             | 41450                         |              |          |      |   |              |          |  |
| 20                   | QPSK       | 1       | 0         | 20.01                        | 20.11                            | 20.24                        | 20.38                             | 20.53                         |              |          | 24.5 | 0 |              |          |  |
| 30                   | QPSK       | 1       | 40        | 20.22                        | 20.32                            | 20.45                        | 20.59                             | 20.74                         |              |          |      |   |              |          |  |
| 40                   | QPSK       | 1       | 80        | 20.43                        | 20.53                            | 20.66                        | 20.80                             | 20.95                         |              |          |      |   |              |          |  |
| 50                   | QPSK       | 1       | 120       | 20.64                        | 20.74                            | 20.87                        | 21.01                             | 21.16                         |              |          |      |   |              |          |  |
| 20                   | QPSK       | 50      | 34        | 20.22                        | 20.30                            | 20.44                        | 20.58                             | 20.73                         |              |          | 23.5 | 1 |              |          |  |
| 30                   | QPSK       | 50      | 69        | 20.43                        | 20.53                            | 20.66                        | 20.80                             | 20.95                         |              |          |      |   |              |          |  |
| 40                   | QPSK       | 50      | 104       | 20.64                        | 20.74                            | 20.87                        | 21.01                             | 21.16                         |              |          |      |   |              |          |  |
| 50                   | QPSK       | 50      | 139       | 20.85                        | 20.95                            | 21.08                        | 21.22                             | 21.37                         |              |          |      |   |              |          |  |
| 20                   | 16QAM      | 1       | 0         | 20.81                        | 20.81                            | 20.93                        | 21.05                             | 21.17                         |              |          | 24.5 | 0 |              |          |  |
| 30                   | 16QAM      | 1       | 40        | 20.92                        | 20.97                            | 21.09                        | 21.21                             | 21.33                         |              |          |      |   |              |          |  |
| 40                   | 16QAM      | 1       | 80        | 21.03                        | 21.07                            | 21.19                        | 21.31                             | 21.43                         |              |          |      |   |              |          |  |
| 50                   | 16QAM      | 1       | 120       | 21.14                        | 21.18                            | 21.30                        | 21.42                             | 21.54                         |              |          |      |   |              |          |  |
| 20                   | 16QAM      | 50      | 34        | 21.17                        | 21.24                            | 21.36                        | 21.48                             | 21.60                         |              |          | 22.5 | 2 |              |          |  |
| 30                   | 16QAM      | 50      | 69        | 21.16                        | 21.23                            | 21.35                        | 21.47                             | 21.59                         |              |          |      |   |              |          |  |
| 40                   | 16QAM      | 50      | 104       | 21.14                        | 21.21                            | 21.33                        | 21.45                             | 21.57                         |              |          |      |   |              |          |  |
| 50                   | 16QAM      | 50      | 139       | 21.14                        | 21.21                            | 21.33                        | 21.45                             | 21.57                         |              |          |      |   |              |          |  |
| 20                   | 8QAM       | 1       | 0         | 20.84                        | 20.92                            | 21.05                        | 21.18                             | 21.31                         |              |          | 24.5 | 0 |              |          |  |
| 30                   | 8QAM       | 1       | 40        | 20.99                        | 21.07                            | 21.20                        | 21.33                             | 21.46                         |              |          |      |   |              |          |  |
| 40                   | 8QAM       | 1       | 80        | 21.05                        | 21.13                            | 21.26                        | 21.39                             | 21.52                         |              |          |      |   |              |          |  |
| 50                   | 8QAM       | 1       | 120       | 21.11                        | 21.19                            | 21.32                        | 21.45                             | 21.58                         |              |          |      |   |              |          |  |
| 20                   | 8QAM       | 50      | 34        | 20.97                        | 21.05                            | 21.18                        | 21.31                             | 21.44                         |              |          | 21.5 | 3 |              |          |  |
| 30                   | 8QAM       | 50      | 69        | 21.03                        | 21.11                            | 21.24                        | 21.37                             | 21.50                         |              |          |      |   |              |          |  |
| 40                   | 8QAM       | 50      | 104       | 21.09                        | 21.17                            | 21.30                        | 21.43                             | 21.56                         |              |          |      |   |              |          |  |
| 50                   | 8QAM       | 50      | 139       | 21.15                        | 21.23                            | 21.36                        | 21.49                             | 21.62                         |              |          |      |   |              |          |  |
| 20                   | 25QAM      | 1       | 0         | 21.00                        | 21.14                            | 21.26                        | 21.37                             | 21.48                         |              |          | 22.5 | 2 |              |          |  |
| 30                   | 25QAM      | 1       | 40        | 21.00                        | 21.14                            | 21.26                        | 21.37                             | 21.48                         |              |          |      |   |              |          |  |
| 40                   | 25QAM      | 1       | 80        | 21.00                        | 21.14                            | 21.26                        | 21.37                             | 21.48                         |              |          |      |   |              |          |  |
| 50                   | 25QAM      | 1       | 120       | 21.00                        | 21.14                            | 21.26                        | 21.37                             | 21.48                         |              |          |      |   |              |          |  |
| 20                   | 25QAM      | 50      | 34        | 21.00                        | 21.14                            | 21.26                        | 21.37                             | 21.48                         |              |          | 22.5 | 2 |              |          |  |
| 30                   | 25QAM      | 50      | 69        | 21.00                        | 21.14                            | 21.26                        | 21.37                             | 21.48                         |              |          |      |   |              |          |  |
| 40                   | 25QAM      | 50      | 104       | 21.00                        | 21.14                            | 21.26                        | 21.37                             | 21.48                         |              |          |      |   |              |          |  |
| 50                   | 25QAM      | 50      | 139       | 21.00                        | 21.14                            | 21.26                        | 21.37                             | 21.48                         |              |          |      |   |              |          |  |
| Channel              |            |         |           |                              |                                  |                              |                                   |                               |              |          |      |   |              |          |  |
| Frequency (MHz)      |            |         |           | 3670                         | 40173                            | 46005                        | 41055                             | 41476                         |              |          |      |   | Energy (mW)  | MPN (dB) |  |
| 15                   | QPSK       | 1       | 0         | 20.06                        | 20.06                            | 20.20                        | 20.34                             | 20.47                         |              |          | 24.5 | 0 |              |          |  |
| 15                   | QPSK       | 1       | 37        | 20.10                        | 20.20                            | 20.34                        | 20.48                             | 20.61                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 1       | 74        | 20.14                        | 20.24                            | 20.38                        | 20.52                             | 20.65                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 1       | 111       | 20.18                        | 20.28                            | 20.42                        | 20.56                             | 20.69                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 36      | 0         | 20.18                        | 20.28                            | 20.42                        | 20.56                             | 20.69                         |              |          | 23.5 | 1 |              |          |  |
| 15                   | QPSK       | 36      | 36        | 20.18                        | 20.27                            | 20.41                        | 20.55                             | 20.68                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 36      | 72        | 20.21                        | 20.29                            | 20.43                        | 20.57                             | 20.70                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 36      | 108       | 20.24                        | 20.33                            | 20.47                        | 20.61                             | 20.74                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 1       | 0         | 20.82                        | 20.87                            | 20.99                        | 21.11                             | 21.23                         |              |          | 24.5 | 0 |              |          |  |
| 15                   | 16QAM      | 1       | 37        | 20.88                        | 20.94                            | 21.06                        | 21.18                             | 21.30                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 1       | 74        | 20.94                        | 21.00                            | 21.12                        | 21.24                             | 21.36                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 1       | 111       | 21.00                        | 21.06                            | 21.18                        | 21.30                             | 21.42                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 36      | 0         | 20.82                        | 20.87                            | 20.99                        | 21.11                             | 21.23                         |              |          | 22.5 | 2 |              |          |  |
| 15                   | 16QAM      | 36      | 36        | 20.88                        | 20.94                            | 21.06                        | 21.18                             | 21.30                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 36      | 72        | 20.94                        | 21.00                            | 21.12                        | 21.24                             | 21.36                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 36      | 108       | 21.00                        | 21.06                            | 21.18                        | 21.30                             | 21.42                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 1       | 0         | 20.78                        | 20.78                            | 20.89                        | 21.00                             | 21.11                         |              |          | 24.5 | 0 |              |          |  |
| 15                   | 8QAM       | 1       | 37        | 20.84                        | 20.92                            | 21.04                        | 21.16                             | 21.28                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 1       | 74        | 20.90                        | 20.98                            | 21.10                        | 21.22                             | 21.34                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 1       | 111       | 20.96                        | 21.04                            | 21.16                        | 21.28                             | 21.40                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 36      | 0         | 20.78                        | 20.78                            | 20.89                        | 21.00                             | 21.11                         |              |          | 21.5 | 3 |              |          |  |
| 15                   | 8QAM       | 36      | 36        | 20.84                        | 20.92                            | 21.04                        | 21.16                             | 21.28                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 36      | 72        | 20.90                        | 20.98                            | 21.10                        | 21.22                             | 21.34                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 36      | 108       | 20.96                        | 21.04                            | 21.16                        | 21.28                             | 21.40                         |              |          |      |   |              |          |  |
| 15                   | 25QAM      | 1       | 0         | 20.82                        | 20.84                            | 20.96                        | 21.08                             | 21.20                         |              |          | 22.5 | 2 |              |          |  |
| 15                   | 25QAM      | 1       | 37        | 20.87                        | 20.89                            | 21.01                        | 21.13                             | 21.25                         |              |          |      |   |              |          |  |
| 15                   | 25QAM      | 1       | 74        | 20.92                        | 20.94                            | 21.06                        | 21.18                             | 21.30                         |              |          |      |   |              |          |  |
| 15                   | 25QAM      | 1       | 111       | 20.97                        | 20.99                            | 21.11                        | 21.23                             | 21.35                         |              |          |      |   |              |          |  |
| 15                   | 25QAM      | 36      | 0         | 20.82                        | 20.84                            | 20.96                        | 21.08                             | 21.20                         |              |          | 22.5 | 2 |              |          |  |
| 15                   | 25QAM      | 36      | 36        | 20.87                        | 20.89                            | 21.01                        | 21.13                             | 21.25                         |              |          |      |   |              |          |  |
| 15                   | 25QAM      | 36      | 72        | 20.92                        | 20.94                            | 21.06                        | 21.18                             | 21.30                         |              |          |      |   |              |          |  |
| 15                   | 25QAM      | 36      | 108       | 20.97                        | 20.99                            | 21.11                        | 21.23                             | 21.35                         |              |          |      |   |              |          |  |
| Channel              |            |         |           |                              |                                  |                              |                                   |                               |              |          |      |   |              |          |  |
| Frequency (MHz)      |            |         |           | 2021                         | 2047                             | 2061                         | 2079                              | 2088                          |              |          |      |   | Turn-up (dB) | MPN (dB) |  |
| 15                   | QPSK       | 1       | 0         | 20.07                        | 20.13                            | 20.20                        | 20.29                             | 20.35                         |              |          | 24.5 | 0 |              |          |  |
| 15                   | QPSK       | 1       | 37        | 20.11                        | 20.17                            | 20.24                        | 20.33                             | 20.39                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 1       | 74        | 20.15                        | 20.21                            | 20.28                        | 20.37                             | 20.43                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 1       | 111       | 20.19                        | 20.25                            | 20.32                        | 20.41                             | 20.47                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 36      | 0         | 20.15                        | 20.21                            | 20.28                        | 20.37                             | 20.43                         |              |          | 23.5 | 1 |              |          |  |
| 15                   | QPSK       | 36      | 36        | 20.15                        | 20.22                            | 20.29                        | 20.38                             | 20.44                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 36      | 72        | 20.17                        | 20.24                            | 20.31                        | 20.40                             | 20.47                         |              |          |      |   |              |          |  |
| 15                   | QPSK       | 36      | 108       | 20.19                        | 20.26                            | 20.33                        | 20.42                             | 20.49                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 1       | 0         | 20.80                        | 20.84                            | 20.89                        | 20.95                             | 21.00                         |              |          | 24.5 | 0 |              |          |  |
| 15                   | 16QAM      | 1       | 37        | 20.84                        | 20.88                            | 20.93                        | 20.99                             | 21.04                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 1       | 74        | 20.88                        | 20.92                            | 20.97                        | 21.03                             | 21.08                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 1       | 111       | 20.92                        | 20.96                            | 21.01                        | 21.07                             | 21.12                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 36      | 0         | 20.80                        | 20.84                            | 20.89                        | 20.95                             | 21.00                         |              |          | 21.5 | 3 |              |          |  |
| 15                   | 16QAM      | 36      | 36        | 20.84                        | 20.88                            | 20.93                        | 20.99                             | 21.04                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 36      | 72        | 20.88                        | 20.92                            | 20.97                        | 21.03                             | 21.08                         |              |          |      |   |              |          |  |
| 15                   | 16QAM      | 36      | 108       | 20.92                        | 20.96                            | 21.01                        | 21.07                             | 21.12                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 1       | 0         | 21.01                        | 21.01                            | 21.07                        | 21.09                             | 21.10                         |              |          | 22.5 | 2 |              |          |  |
| 15                   | 8QAM       | 1       | 37        | 21.01                        | 21.01                            | 21.07                        | 21.09                             | 21.10                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 1       | 74        | 21.01                        | 21.01                            | 21.07                        | 21.09                             | 21.10                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 1       | 111       | 21.01                        | 21.01                            | 21.07                        | 21.09                             | 21.10                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 36      | 0         | 21.01                        | 21.01                            | 21.07                        | 21.09                             | 21.10                         |              |          | 22.5 | 2 |              |          |  |
| 15                   | 8QAM       | 36      | 36        | 21.01                        | 21.01                            | 21.07                        | 21.09                             | 21.10                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 36      | 72        | 21.01                        | 21.01                            | 21.07                        | 21.09                             | 21.10                         |              |          |      |   |              |          |  |
| 15                   | 8QAM       | 36      | 108       | 21.01                        | 21.01                            | 21.07                        | 21.09                             | 21.10                         |              |          |      |   |              |          |  |
| Channel              |            |         |           |                              |                                  |                              |                                   |                               |              |          |      |   |              |          |  |
| Frequency (MHz)      |            |         |           | 2045.5                       | 4041.5                           | 46005                        | 41055                             | 41505                         |              |          |      |   | Turn-up (dB) | MPN (dB) |  |
| 5                    | QPSK       | 1       | 0         | 20.09                        | 20.19                            | 20.34                        | 20.50                             | 20.67                         |              |          | 24.5 | 0 |              |          |  |
| 5                    | QPSK       | 1       | 37        | 20.12                        | 20.22                            | 20.37                        | 20.53                             | 20.70                         |              |          |      |   |              |          |  |
| 5                    | QPSK       | 1       | 74        | 20.16                        | 20.26                            | 20.41                        | 20.57                             | 20.74                         |              |          |      |   |              |          |  |
| 5                    | QPSK       | 1       | 111       | 20.20                        | 20.30                            | 20.45                        | 20.61                             | 20.78                         |              |          |      |   |              |          |  |
| 5                    | QPSK       | 12      | 0         | 20.14                        | 20.24                            | 20.39                        | 20.55                             | 20.71                         |              |          | 23.5 | 1 |              |          |  |
| 5                    | QPSK       | 12      | 37        | 20.18                        | 20.28                            | 20.43                        | 20.59                             | 20.75                         |              |          |      |   |              |          |  |
| 5                    | QPSK       | 12      | 74        | 20.22                        | 20.32                            | 20.47                        | 20.63                             | 20.79                         |              |          |      |   |              |          |  |
| 5                    | QPSK       | 12      | 111       | 20.26                        | 20.36                            | 20.51                        | 20.67                             | 20.83                         |              |          |      |   |              |          |  |
| 5                    | QPSK       | 12      | 15        | 20.17                        | 20.27                            | 20.42                        | 20.57                             | 20.72                         |              |          | 24.5 | 0 |              |          |  |
| 5                    | QPSK       | 12      | 50        | 20.24                        | 20.34                            | 20.49                        | 20.64                             | 20.79                         |              |          |      |   |              |          |  |
| 5                    | QPSK       | 12      | 90        | 20.31                        | 20.41                            | 20.56                        | 20.71                             | 20.86                         |              |          |      |   |              |          |  |
| 5                    | QPSK       | 12      | 130       | 20.38                        | 20.48                            | 20.63                        | 20.78                             | 20.93                         |              |          |      |   |              |          |  |
| 5                    | 16QAM      | 1       | 0         | 20.89                        | 20.89                            | 21.00                        | 21.11                             | 21.22                         |              |          | 24.5 | 0 |              |          |  |
| 5                    | 16QAM      | 1       | 37        | 20.95                        | 21.05                            | 21.16                        | 21.27                             | 21.38                         |              |          |      |   |              |          |  |
| 5                    | 16QAM      | 1       | 74        | 21.01                        | 21.11                            | 21.22                        | 21.33                             | 21.44                         |              |          |      |   |              |          |  |
| 5                    | 16QAM      | 1       | 111       | 21.07                        | 21.17                            | 21.28                        | 21.39                             | 21.50                         |              |          |      |   |              |          |  |
| 5                    | 16QAM      | 12      | 0         | 20.89                        | 20.89                            | 21.00                        | 21.11                             | 21.22                         |              |          | 21.5 | 3 |              |          |  |
| 5                    | 16QAM      | 12      | 37        | 20.95                        | 21.05                            | 21.16                        | 21.27                             | 21.38                         |              |          |      |   |              |          |  |
| 5                    | 16QAM      | 12      | 74        | 21.01                        | 21.11                            | 21.22                        | 21.33                             | 21.44                         |              |          |      |   |              |          |  |
| 5                    | 16QAM      | 12      | 111       | 21.07                        | 21.17                            | 21.28                        | 21.39                             | 21.50                         |              |          |      |   |              |          |  |
| 5                    | 8QAM       | 1       | 0         | 20.80                        | 20.80                            | 20.91                        | 21.02                             | 21.13                         |              |          | 22.5 | 2 |              |          |  |
| 5                    | 8QAM       | 1       | 37        | 20.86                        | 20.96                            | 21.07                        | 21.18                             | 21.29                         |              |          |      |   |              |          |  |
| 5                    | 8QAM       | 1       | 74        | 20.92                        | 21.02                            | 21.13                        | 21.24                             | 21.35                         |              |          |      |   |              |          |  |
| 5                    | 8QAM       | 1       | 111       | 20.98                        | 21.08                            | 21.19                        | 21.30                             | 21.41                         |              |          |      |   |              |          |  |
| 5                    | 8QAM       | 12      | 0         | 20.80                        | 20.80                            | 20.91                        | 21.02                             | 21.13                         |              |          | 22.5 | 2 |              |          |  |
| 5                    | 8QAM       | 12      | 37        | 20.86                        | 20.96                            | 21.07                        | 21.18                             | 21.29                         |              |          |      |   |              |          |  |
| 5                    | 8QAM       | 12      | 74        | 20.92                        | 21.02                            | 21.13                        | 21.24                             | 21.35                         |              |          |      |   |              |          |  |
| 5                    | 8QAM       | 12      | 111       | 20.98                        | 21.08                            | 21.19                        | 21.30                             | 21.41                         |              |          |      |   |              |          |  |
| 5                    | 25QAM      | 1       | 0         | 21.02                        | 21.12                            | 21.23                        | 21.34                             | 21.45                         |              |          | 22.5 | 2 |              |          |  |
| 5                    | 25QAM      | 1       | 37        | 21.02                        | 21.12                            | 21.23                        | 21.34                             | 21.45                         |              |          |      |   |              |          |  |
| 5                    | 25QAM      | 1       | 74        | 21.02                        | 21.12                            | 21.23                        | 21.34                             | 21.45                         |              |          |      |   |              |          |  |
| 5                    | 25QAM      | 1       | 111       | 21.02                        | 21.12                            | 21.23                        | 21.34                             | 21.45                         |              |          |      |   |              |          |  |
| 5                    | 25QAM      | 12      | 0         | 21.02                        | 21.12                            | 21.23                        | 21.34                             | 21.45                         |              |          | 22.5 | 2 |              |          |  |
| 5                    | 25QAM      | 12      | 37        | 21.02                        | 21.12                            | 21.23                        | 21.34                             | 21.45                         |              |          |      |   |              |          |  |
| 5                    | 25QAM      | 12      | 74        | 21.02                        | 21.12                            | 21.23                        | 21.34                             | 21.45                         |              |          |      |   |              |          |  |

| Band 48_Ant 3           |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
|-------------------------|------------|---------|-----------|----------------------------|----------------------------|-----------------------------|----------------------|---------------------|----------|--|--|--|
| BW (MHz)                | Modulation | RF Band | RF Offset | Power Low Freq (Ch / Freq) | Power Low Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Turn-up time (secs) | MFR (dB) |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 55500 55550 56150 56650 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 20                      | QPSK       | 1       | 0         | 21.22                      | 21.35                      | 21.41                       | 21.46                | 22                  | 0        |  |  |  |
| 20                      | QPSK       | 1       | 46        | 21.52                      | 21.64                      | 21.70                       | 21.75                |                     |          |  |  |  |
| 20                      | QPSK       | 50      | 0         | 21.54                      | 21.66                      | 21.69                       | 21.73                |                     |          |  |  |  |
| 20                      | QPSK       | 50      | 0         | 19.81                      | 19.93                      | 19.97                       | 19.99                |                     |          |  |  |  |
| 20                      | QPSK       | 50      | 24        | 19.69                      | 19.81                      | 19.85                       | 19.88                | 21                  | 1        |  |  |  |
| 20                      | QPSK       | 50      | 50        | 19.68                      | 19.80                      | 19.85                       | 19.81                |                     |          |  |  |  |
| 20                      | QPSK       | 100     | 0         | 19.68                      | 19.80                      | 19.85                       | 19.83                |                     |          |  |  |  |
| 20                      | 16QAM      | 1       | 0         | 20.38                      | 20.50                      | 20.53                       | 20.62                |                     |          |  |  |  |
| 20                      | 16QAM      | 1       | 46        | 20.61                      | 20.69                      | 20.64                       | 20.54                | 21                  | 1        |  |  |  |
| 20                      | 16QAM      | 1       | 46        | 20.74                      | 20.78                      | 20.78                       | 20.67                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 19.45                      | 19.58                      | 19.60                       | 19.79                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 24        | 19.62                      | 19.67                      | 19.56                       | 19.80                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 50        | 19.62                      | 19.65                      | 19.65                       | 19.73                | 20                  | 2        |  |  |  |
| 20                      | 16QAM      | 100     | 0         | 19.62                      | 19.63                      | 19.63                       | 19.76                |                     |          |  |  |  |
| 20                      | 16QAM      | 1       | 0         | 19.55                      | 19.46                      | 19.38                       | 19.81                |                     |          |  |  |  |
| 20                      | 16QAM      | 1       | 46        | 19.62                      | 19.61                      | 19.62                       | 19.68                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 17.52                      | 17.58                      | 17.67                       | 17.80                | 19                  | 3        |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 17.58                      | 17.66                      | 17.66                       | 17.82                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 24        | 17.58                      | 17.60                      | 17.60                       | 17.82                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 50        | 17.60                      | 17.46                      | 17.28                       | 17.77                |                     |          |  |  |  |
| 20                      | 256QAM     | 1       | 0         | 20.19                      | 20.12                      | 20.23                       | 20.43                | 21                  | 1        |  |  |  |
| 20                      | 256QAM     | 1       | 46        | 20.23                      | 20.22                      | 20.18                       | 20.45                |                     |          |  |  |  |
| 20                      | 256QAM     | 50      | 0         | 20.30                      | 20.30                      | 20.27                       | 20.36                |                     |          |  |  |  |
| 20                      | 256QAM     | 100     | 0         | 20.08                      | 20.10                      | 20.10                       | 20.41                |                     |          |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 55515 55565 56165 56665 |            |         |           |                            |                            |                             |                      | Turn-up time (secs) | MFR (dB) |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 15                      | QPSK       | 1       | 0         | 21.08                      | 21.35                      | 21.44                       | 21.34                | 22                  | 0        |  |  |  |
| 15                      | QPSK       | 1       | 37        | 21.50                      | 21.46                      | 21.45                       | 21.33                |                     |          |  |  |  |
| 15                      | QPSK       | 1       | 74        | 21.17                      | 21.12                      | 21.10                       | 21.24                |                     |          |  |  |  |
| 15                      | QPSK       | 36      | 0         | 19.68                      | 19.42                      | 19.33                       | 19.75                |                     |          |  |  |  |
| 15                      | QPSK       | 36      | 20        | 19.60                      | 19.54                      | 19.40                       | 19.46                | 21                  | 1        |  |  |  |
| 15                      | QPSK       | 36      | 36        | 19.63                      | 19.35                      | 19.27                       | 19.64                |                     |          |  |  |  |
| 15                      | QPSK       | 74      | 0         | 19.66                      | 19.46                      | 19.28                       | 19.68                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 0         | 20.45                      | 20.23                      | 20.49                       | 20.37                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 37        | 20.38                      | 20.64                      | 20.26                       | 20.38                | 21                  | 1        |  |  |  |
| 15                      | 16QAM      | 1       | 74        | 20.67                      | 20.32                      | 20.51                       | 20.40                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 0         | 19.43                      | 19.61                      | 19.64                       | 19.75                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 20        | 18.42                      | 18.70                      | 19.36                       | 18.54                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 36        | 18.71                      | 18.93                      | 18.72                       | 18.45                | 20                  | 2        |  |  |  |
| 15                      | 16QAM      | 74      | 0         | 18.45                      | 18.66                      | 18.46                       | 18.75                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 0         | 19.57                      | 19.19                      | 19.35                       | 19.66                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 37        | 19.52                      | 19.37                      | 19.56                       | 19.74                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 74        | 19.68                      | 19.68                      | 19.68                       | 19.67                | 20                  | 2        |  |  |  |
| 15                      | 16QAM      | 36      | 0         | 17.45                      | 17.54                      | 17.61                       | 17.68                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 20        | 17.46                      | 17.51                      | 17.49                       | 17.80                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 36        | 17.68                      | 17.65                      | 17.64                       | 17.69                |                     |          |  |  |  |
| 15                      | 16QAM      | 74      | 0         | 17.49                      | 17.51                      | 17.51                       | 17.64                | 19                  | 3        |  |  |  |
| 15                      | 256QAM     | 1       | 0         | 19.93                      | 20.06                      | 20.04                       | 20.36                |                     |          |  |  |  |
| 15                      | 256QAM     | 1       | 37        | 20.69                      | 20.27                      | 20.67                       | 20.48                |                     |          |  |  |  |
| 15                      | 256QAM     | 1       | 74        | 20.11                      | 20.11                      | 20.10                       | 20.29                |                     |          |  |  |  |
| 15                      | 256QAM     | 36      | 0         | 20.25                      | 20.15                      | 20.35                       | 20.31                | 21                  | 1        |  |  |  |
| 15                      | 256QAM     | 36      | 20        | 20.52                      | 20.16                      | 20.42                       | 20.23                |                     |          |  |  |  |
| 15                      | 256QAM     | 36      | 36        | 20.52                      | 20.25                      | 20.25                       | 20.15                |                     |          |  |  |  |
| 15                      | 256QAM     | 74      | 0         | 20.01                      | 20.38                      | 20.22                       | 20.38                |                     |          |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 55500 55515 56165 56665 |            |         |           |                            |                            |                             |                      | Turn-up time (secs) | MFR (dB) |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 10                      | QPSK       | 1       | 0         | 21.19                      | 21.46                      | 21.43                       | 21.35                | 22                  | 0        |  |  |  |
| 10                      | QPSK       | 1       | 25        | 21.37                      | 21.35                      | 21.35                       | 21.43                |                     |          |  |  |  |
| 10                      | QPSK       | 1       | 46        | 21.33                      | 21.30                      | 21.29                       | 21.30                |                     |          |  |  |  |
| 10                      | QPSK       | 25      | 0         | 19.35                      | 19.46                      | 19.44                       | 19.51                |                     |          |  |  |  |
| 10                      | QPSK       | 25      | 12        | 19.40                      | 19.50                      | 19.39                       | 19.38                | 21                  | 1        |  |  |  |
| 10                      | QPSK       | 25      | 25        | 19.66                      | 19.38                      | 19.37                       | 19.37                |                     |          |  |  |  |
| 10                      | QPSK       | 50      | 0         | 19.58                      | 19.60                      | 19.51                       | 19.60                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 0         | 20.37                      | 20.31                      | 20.31                       | 20.55                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 25        | 20.61                      | 20.60                      | 20.53                       | 20.55                | 21                  | 1        |  |  |  |
| 10                      | 16QAM      | 1       | 46        | 20.64                      | 20.15                      | 20.45                       | 20.55                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 0         | 19.51                      | 19.60                      | 19.44                       | 19.76                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 12        | 19.53                      | 19.48                      | 19.43                       | 19.76                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 25        | 18.51                      | 18.62                      | 18.56                       | 18.49                | 20                  | 2        |  |  |  |
| 10                      | 16QAM      | 50      | 0         | 18.37                      | 18.65                      | 18.51                       | 18.58                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 0         | 19.49                      | 19.45                      | 19.11                       | 19.52                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 25        | 19.36                      | 19.59                      | 19.59                       | 19.73                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 46        | 19.37                      | 19.42                      | 19.37                       | 19.63                | 20                  | 2        |  |  |  |
| 10                      | 16QAM      | 25      | 0         | 17.31                      | 17.43                      | 17.61                       | 17.69                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 12        | 17.64                      | 17.45                      | 17.61                       | 17.67                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 25        | 17.35                      | 17.57                      | 17.42                       | 17.80                |                     |          |  |  |  |
| 10                      | 16QAM      | 50      | 0         | 17.46                      | 17.35                      | 17.68                       | 17.84                | 19                  | 3        |  |  |  |
| 10                      | 256QAM     | 1       | 0         | 20.03                      | 20.05                      | 20.04                       | 20.36                |                     |          |  |  |  |
| 10                      | 256QAM     | 1       | 25        | 20.23                      | 20.25                      | 20.09                       | 20.27                |                     |          |  |  |  |
| 10                      | 256QAM     | 1       | 46        | 20.08                      | 20.22                      | 19.85                       | 20.03                |                     |          |  |  |  |
| 10                      | 256QAM     | 25      | 0         | 20.09                      | 20.03                      | 20.37                       | 20.14                | 21                  | 1        |  |  |  |
| 10                      | 256QAM     | 25      | 12        | 20.25                      | 20.14                      | 20.40                       | 20.33                |                     |          |  |  |  |
| 10                      | 256QAM     | 25      | 25        | 20.28                      | 20.15                      | 19.89                       | 20.08                |                     |          |  |  |  |
| 10                      | 256QAM     | 50      | 0         | 20.14                      | 20.13                      | 20.27                       | 20.43                |                     |          |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 55515 55515 56170 56175 |            |         |           |                            |                            |                             |                      | Turn-up time (secs) | MFR (dB) |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 5                       | QPSK       | 1       | 0         | 21.02                      | 21.20                      | 21.40                       | 21.42                | 22                  | 0        |  |  |  |
| 5                       | QPSK       | 1       | 37        | 21.37                      | 21.45                      | 21.46                       | 21.44                |                     |          |  |  |  |
| 5                       | QPSK       | 1       | 24        | 21.35                      | 21.40                      | 21.30                       | 21.36                |                     |          |  |  |  |
| 5                       | QPSK       | 12      | 0         | 19.69                      | 19.38                      | 19.29                       | 19.68                |                     |          |  |  |  |
| 5                       | QPSK       | 12      | 0         | 19.61                      | 19.34                      | 19.61                       | 19.40                | 21                  | 1        |  |  |  |
| 5                       | QPSK       | 12      | 7         | 19.61                      | 19.34                      | 19.61                       | 19.45                | 21                  | 1        |  |  |  |
| 5                       | QPSK       | 12      | 13        | 19.65                      | 19.32                      | 19.35                       | 19.38                |                     |          |  |  |  |
| 5                       | QPSK       | 12      | 19        | 19.67                      | 19.45                      | 19.48                       | 19.50                |                     |          |  |  |  |
| 5                       | QPSK       | 1       | 0         | 20.34                      | 20.33                      | 20.32                       | 20.32                |                     |          |  |  |  |
| 5                       | 16QAM      | 1       | 12        | 20.36                      | 20.41                      | 20.23                       | 20.38                | 21                  | 1        |  |  |  |
| 5                       | 16QAM      | 1       | 12        | 20.36                      | 20.37                      | 20.23                       | 20.38                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 7         | 19.68                      | 19.61                      | 19.32                       | 19.64                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 7         | 19.63                      | 19.60                      | 19.44                       | 19.63                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 13        | 19.67                      | 19.67                      | 19.72                       | 19.76                | 20                  | 2        |  |  |  |
| 5                       | 16QAM      | 12      | 13        | 19.67                      | 19.67                      | 19.72                       | 19.76                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 19        | 19.67                      | 19.67                      | 19.72                       | 19.76                |                     |          |  |  |  |
| 5                       | 16QAM      | 1       | 0         | 19.44                      | 19.34                      | 19.58                       | 19.48                |                     |          |  |  |  |
| 5                       | 16QAM      | 1       | 12        | 19.44                      | 19.35                      | 19.56                       | 19.41                | 20                  | 2        |  |  |  |
| 5                       | 16QAM      | 1       | 12        | 19.44                      | 19.34                      | 19.56                       | 19.50                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 0         | 17.42                      | 17.62                      | 17.38                       | 17.63                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 7         | 17.31                      | 17.40                      | 17.47                       | 17.73                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 13        | 17.36                      | 17.68                      | 17.51                       | 17.74                | 19                  | 3        |  |  |  |
| 5                       | 16QAM      | 12      | 13        | 17.36                      | 17.68                      | 17.51                       | 17.74                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 19        | 17.36                      | 17.68                      | 17.51                       | 17.74                |                     |          |  |  |  |
| 5                       | 256QAM     | 1       | 0         | 19.92                      | 20.06                      | 19.98                       | 20.26                |                     |          |  |  |  |
| 5                       | 256QAM     | 1       | 12        | 19.95                      | 20.24                      | 20.26                       | 20.27                | 21                  | 1        |  |  |  |
| 5                       | 256QAM     | 1       | 12        | 19.95                      | 20.24                      | 20.26                       | 20.27                |                     |          |  |  |  |
| 5                       | 256QAM     | 12      | 0         | 19.97                      | 20.26                      | 20.27                       | 20.25                |                     |          |  |  |  |
| 5                       | 256QAM     | 12      | 0         | 19.97                      | 20.26                      | 20.27                       | 20.25                |                     |          |  |  |  |
| 5                       | 256QAM     | 12      | 7         | 20.06                      | 20.01                      | 20.15                       | 20.28                |                     |          |  |  |  |
| 5                       | 256QAM     | 12      | 13        | 20.01                      | 20.06                      | 20.04                       | 20.40                | 21                  | 1        |  |  |  |
| 5                       | 256QAM     | 25      | 0         | 20.01                      | 20.06                      | 20.04                       | 20.40                |                     |          |  |  |  |



Reduced Power Mode for DSI2

| GSMD0_Ant 0     | Base-Average Power (dBm) |       |       | Tx Power Limit (dBm) | Frame-Average Power (dBm) |       |       | Tx Power Limit (dBm) |
|-----------------|--------------------------|-------|-------|----------------------|---------------------------|-------|-------|----------------------|
|                 | TS Channel               | 500   | 500   |                      | TS Channel                | 500   | 500   |                      |
| Frequency (MHz) | 500.2                    | 500.4 | 500.6 | 500.2                | 500.2                     | 500.4 | 500.6 | 500.2                |
| GSMD 1 Tx ant   | 22.20                    | 22.11 | 22.23 | 23.50                | 23.20                     | 23.11 | 23.23 | 24.50                |
| GPMS 1 Tx ant   | 22.17                    | 22.09 | 22.21 | 23.50                | 23.17                     | 23.09 | 23.21 | 24.50                |
| GPMS 2 Tx ant   | 20.41                    | 20.29 | 20.53 | 20.50                | 20.41                     | 20.29 | 20.53 | 24.50                |
| GPMS 3 Tx ant   | 20.54                    | 20.59 | 20.53 | 20.50                | 24.28                     | 24.33 | 24.27 | 24.75                |
| GPMS 4 Tx ant   | 20.60                    | 20.59 | 27.30 | 27.50                | 23.60                     | 23.59 | 24.30 | 24.50                |
| EDGE 1 Tx ant   | 20.60                    | 20.39 | 20.43 | 27.00                | 17.00                     | 17.39 | 17.40 | 18.00                |
| EDGE 2 Tx ant   | 20.43                    | 20.01 | 20.31 | 20.00                | 18.43                     | 18.01 | 18.31 | 20.00                |
| EDGE 3 Tx ant   | 22.51                    | 22.47 | 22.62 | 24.50                | 18.23                     | 18.21 | 18.58 | 20.24                |
| EDGE 4 Tx ant   | 22.54                    | 22.60 | 21.97 | 23.00                | 18.54                     | 18.60 | 18.97 | 20.50                |

| GSMD0_Ant 1     | Base-Average Power (dBm) |       |       | Tx Power Limit (dBm) | Frame-Average Power (dBm) |       |       | Tx Power Limit (dBm) |
|-----------------|--------------------------|-------|-------|----------------------|---------------------------|-------|-------|----------------------|
|                 | TS Channel               | 500   | 500   |                      | TS Channel                | 500   | 500   |                      |
| Frequency (MHz) | 500.2                    | 500.4 | 500.6 | 500.2                | 500.2                     | 500.4 | 500.6 | 500.2                |
| GSMD 1 Tx ant   | 20.43                    | 20.45 | 20.71 | 20.30                | 20.43                     | 20.45 | 20.71 | 21.30                |
| GPMS 1 Tx ant   | 20.40                    | 20.45 | 20.60 | 20.30                | 20.40                     | 20.45 | 20.60 | 21.30                |
| GPMS 2 Tx ant   | 20.10                    | 20.27 | 20.60 | 27.50                | 17.10                     | 20.27 | 20.60 | 21.30                |
| GPMS 3 Tx ant   | 24.75                    | 24.90 | 24.83 | 25.00                | 19.75                     | 20.64 | 20.97 | 21.50                |
| GPMS 4 Tx ant   | 23.41                    | 23.32 | 23.62 | 24.30                | 14.41                     | 20.30 | 20.62 | 21.30                |
| EDGE 1 Tx ant   | 20.77                    | 20.50 | 20.81 | 27.00                | 17.77                     | 17.60 | 17.81 | 18.00                |
| EDGE 2 Tx ant   | 20.60                    | 20.30 | 20.60 | 20.00                | 16.60                     | 18.30 | 18.90 | 20.00                |
| EDGE 3 Tx ant   | 23.90                    | 23.63 | 24.03 | 24.50                | 14.90                     | 19.37 | 19.77 | 20.24                |
| EDGE 4 Tx ant   | 23.91                    | 23.10 | 23.27 | 23.00                | 13.91                     | 18.10 | 18.27 | 20.00                |

| GSMD00_Ant 1    | Base-Average Power (dBm) |       |       | Tx Power Limit (dBm) | Frame-Average Power (dBm) |       |       | Tx Power Limit (dBm) |
|-----------------|--------------------------|-------|-------|----------------------|---------------------------|-------|-------|----------------------|
| TS Channel      | 512                      | 661   | 810   |                      | 512                       | 661   | 810   |                      |
| Frequency (MHz) | 500.2                    | 660.2 | 810.2 |                      | 500.2                     | 660.2 | 810.2 |                      |
| GSMD 1 Tx ant   | 24.76                    | 24.53 | 25.00 | 25.70                | 15.76                     | 15.53 | 16.00 | 16.70                |
| GPMS 1 Tx ant   | 24.66                    | 24.31 | 24.86 | 25.70                | 15.66                     | 15.31 | 15.86 | 16.70                |
| GPMS 2 Tx ant   | 20.70                    | 21.15 | 21.30 | 22.70                | 14.70                     | 15.15 | 15.30 | 16.70                |
| GPMS 3 Tx ant   | 19.34                    | 18.63 | 19.57 | 21.00                | 14.06                     | 15.37 | 16.31 | 16.70                |
| GPMS 4 Tx ant   | 17.97                    | 18.54 | 18.54 | 18.70                | 14.97                     | 15.54 | 15.54 | 16.70                |
| EDGE 1 Tx ant   | 24.67                    | 24.67 | 24.16 | 25.20                | 15.67                     | 15.67 | 15.16 | 16.20                |
| EDGE 2 Tx ant   | 20.85                    | 21.18 | 21.18 | 22.70                | 14.85                     | 15.18 | 15.18 | 16.70                |
| EDGE 3 Tx ant   | 18.00                    | 18.21 | 18.20 | 20.00                | 14.80                     | 14.80 | 15.03 | 16.64                |
| EDGE 4 Tx ant   | 18.00                    | 18.27 | 18.16 | 18.70                | 15.02                     | 15.27 | 15.16 | 16.70                |

| GSMD00_Ant 2    |       | Base-Average Power (dBm) |       |        | Tx Power Limit (dBm) | Frame-Average Power (dBm) |       |        | Tx Power Limit (dBm) |
|-----------------|-------|--------------------------|-------|--------|----------------------|---------------------------|-------|--------|----------------------|
| TS Channel      |       | 512                      | 661   | 810    |                      | 512                       | 661   | 810    |                      |
| Frequency (MHz) | 500.2 | 660.2                    | 810.2 | 1008.8 | 500.2                | 660.2                     | 810.2 | 1008.8 |                      |
| GSMD 1 Tx ant   | 20.24 | 20.27                    | 20.63 | 20.50  | 21.24                | 21.27                     | 20.63 | 21.50  |                      |
| GPMS 1 Tx ant   | 20.22 | 20.25                    | 20.61 | 20.50  | 21.22                | 21.25                     | 20.61 | 21.50  |                      |
| GPMS 2 Tx ant   | 20.00 | 20.17                    | 21.71 | 20.00  | 22.00                | 22.17                     | 21.71 | 22.00  |                      |
| GPMS 3 Tx ant   | 20.03 | 20.10                    | 20.94 | 20.00  | 21.77                | 21.84                     | 21.08 | 22.00  |                      |
| GPMS 4 Tx ant   | 24.15 | 24.50                    | 23.87 | 25.00  | 21.15                | 21.50                     | 20.87 | 22.00  |                      |
| EDGE 1 Tx ant   | 20.00 | 20.00                    | 20.87 | 20.00  | 17.00                | 17.00                     | 17.87 | 22.00  |                      |
| EDGE 2 Tx ant   | 20.00 | 20.14                    | 24.71 | 20.00  | 15.00                | 19.14                     | 18.71 | 19.00  |                      |
| EDGE 3 Tx ant   | 23.46 | 23.50                    | 22.90 | 24.00  | 19.20                | 19.50                     | 18.70 | 19.74  |                      |
| EDGE 4 Tx ant   | 21.86 | 21.90                    | 21.30 | 22.00  | 16.86                | 16.90                     | 16.30 | 19.00  |                      |

| Base            |                    | HSDSPA_Ant 1 |       |       | HSDSPA_Ant 2 |       |       |       |
|-----------------|--------------------|--------------|-------|-------|--------------|-------|-------|-------|
| Tx Channel      | TS Channel         | 5002         | 5003  | 5008  | 5002         | 5003  | 5008  |       |
|                 |                    | 5002         | 5003  | 5008  | 5002         | 5003  | 5008  |       |
| Frequency (MHz) |                    | 500.2        | 500.3 | 500.8 | 500.2        | 500.3 | 500.8 |       |
| SCPP Rel 50     | AMM 12.200pp       | 18.02        | 18.74 | 18.08 | 18.70        | 24.10 | 24.10 | 25.00 |
| SCPP Rel 50     | RMG 12.200pp       | 18.05        | 18.05 | 18.11 | 18.20        | 24.21 | 24.22 | 24.10 |
| SCPP Rel 5      | HSDSPA-Subnet-1    | 13.80        | 14.20 | 13.80 | 15.30        | 23.53 | 23.53 | 24.00 |
| SCPP Rel 5      | HSDSPA-Subnet-2    | 13.88        | 14.21 | 14.00 | 15.30        | 23.57 | 23.50 | 24.00 |
| SCPP Rel 5      | HSDSPA-Subnet-3    | 13.42        | 13.73 | 13.44 | 14.80        | 22.72 | 23.05 | 22.70 |
| SCPP Rel 5      | HSDSPA-Subnet-4    | 13.47        | 13.70 | 13.51 | 14.80        | 22.74 | 23.00 | 22.87 |
| SCPP Rel 5      | HSDSPA-Subnet-5    | 14.08        | 14.09 | 14.13 | 15.30        | 23.28 | 23.24 | 23.11 |
| SCPP Rel 5      | DC-HSDSPA-Subnet-1 | 13.90        | 13.95 | 13.93 | 15.30        | 23.29 | 23.25 | 23.13 |
| SCPP Rel 5      | DC-HSDSPA-Subnet-2 | 13.47        | 13.53 | 13.49 | 14.80        | 22.82 | 22.87 | 22.81 |
| SCPP Rel 5      | DC-HSDSPA-Subnet-3 | 13.48        | 13.51 | 13.43 | 14.80        | 22.77 | 22.81 | 22.84 |
| SCPP Rel 5      | HSDSPA-Subnet-6    | 13.84        | 14.27 | 13.89 | 15.30        | 23.23 | 23.59 | 23.22 |
| SCPP Rel 5      | HSDSPA-Subnet-7    | 11.80        | 12.28 | 11.83 | 13.30        | 21.21 | 21.58 | 21.21 |
| SCPP Rel 5      | HSDSPA-Subnet-8    | 12.83        | 13.02 | 13.00 | 14.30        | 22.29 | 22.57 | 22.24 |
| SCPP Rel 5      | HSDSPA-Subnet-9    | 11.86        | 12.31 | 11.87 | 13.30        | 21.26 | 21.60 | 21.21 |
| SCPP Rel 5      | HSDSPA-Subnet-10   | 13.90        | 14.32 | 14.10 | 15.30        | 23.50 | 23.80 | 23.50 |

| Base            |                    | HSDSPA_Ant 1 |        |        | HSDSPA_Ant 2 |        |        |       |
|-----------------|--------------------|--------------|--------|--------|--------------|--------|--------|-------|
| Tx Channel      | TS Channel         | 1312         | 1413   | 1513   | 1507         | 1508   | 1778   |       |
|                 |                    | 1507         | 1508   | 1778   | 1507         | 1508   | 1778   |       |
| Frequency (MHz) |                    | 1413.4       | 1512.8 | 1612.8 | 1413.4       | 1512.8 | 1612.8 |       |
| SCPP Rel 50     | AMM 12.200pp       | 18.02        | 18.10  | 18.08  | 17.10        | 24.23  | 24.41  | 24.30 |
| SCPP Rel 50     | RMG 12.200pp       | 18.04        | 18.12  | 18.11  | 17.10        | 24.26  | 24.43  | 24.42 |
| SCPP Rel 5      | HSDSPA-Subnet-1    | 14.80        | 14.80  | 14.87  | 16.10        | 23.14  | 23.43  | 23.40 |
| SCPP Rel 5      | HSDSPA-Subnet-2    | 14.82        | 14.80  | 14.80  | 16.10        | 23.22  | 23.41  | 23.41 |
| SCPP Rel 5      | HSDSPA-Subnet-3    | 14.10        | 14.44  | 14.24  | 15.60        | 22.73  | 22.80  | 22.91 |
| SCPP Rel 5      | HSDSPA-Subnet-4    | 14.18        | 14.47  | 14.37  | 15.60        | 22.80  | 22.93  | 22.88 |
| SCPP Rel 5      | DC-HSDSPA-Subnet-1 | 14.74        | 14.77  | 14.66  | 16.10        | 23.14  | 23.37  | 23.14 |
| SCPP Rel 5      | DC-HSDSPA-Subnet-2 | 14.45        | 14.68  | 14.59  | 16.10        | 23.11  | 23.20  | 23.08 |
| SCPP Rel 5      | DC-HSDSPA-Subnet-3 | 14.25        | 14.10  | 14.17  | 15.60        | 22.52  | 22.71  | 22.50 |
| SCPP Rel 5      | DC-HSDSPA-Subnet-4 | 14.17        | 14.00  | 14.05  | 15.60        | 22.48  | 22.74  | 22.60 |
| SCPP Rel 5      | HSDSPA-Subnet-5    | 14.60        | 14.92  | 14.80  | 16.10        | 23.20  | 23.44  | 23.41 |
| SCPP Rel 5      | HSDSPA-Subnet-6    | 12.73        | 12.80  | 12.81  | 14.10        | 21.22  | 21.40  | 21.40 |
| SCPP Rel 5      | HSDSPA-Subnet-7    | 13.69        | 13.83  | 13.86  | 15.10        | 22.22  | 22.43  | 22.39 |
| SCPP Rel 5      | HSDSPA-Subnet-8    | 12.62        | 12.87  | 12.83  | 14.10        | 21.21  | 21.44  | 21.44 |
| SCPP Rel 5      | HSDSPA-Subnet-9    | 14.57        | 14.87  | 14.84  | 16.10        | 23.20  | 23.40  | 23.40 |

| Base        | HSDSPA_V_Ant 5     |       |       |       |       | HSDSPA_V_Ant 1  |       |       |       |       |
|-------------|--------------------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|
|             | Tx Channel         |       | 6102  | 6102  | 6253  | Tx Channel      |       | 6102  | 6102  | 6253  |
|             | Baseband           |       | 6102  | 6102  | 6253  | Baseband        |       | 6102  | 6102  | 6253  |
|             | Frequency (MHz)    |       | 605.4 | 605.4 | 605.5 | Frequency (MHz) |       | 605.4 | 605.4 | 605.5 |
| SCPP Rel 50 | AMM 12.200pp       | 24.40 | 24.51 | 24.60 | 25.00 | 22.81           | 22.82 | 22.84 | 23.50 | 23.50 |
| SCPP Rel 50 | RMG 12.200pp       | 24.51 | 24.63 | 24.62 | 25.00 | 22.83           | 22.85 | 22.85 | 23.50 | 23.50 |
| SCPP Rel 5  | HSDSPA-Subnet-1    | 23.40 | 23.55 | 23.60 | 24.00 | 21.72           | 22.07 | 22.10 | 22.50 | 22.50 |
| SCPP Rel 5  | HSDSPA-Subnet-2    | 22.46 | 22.60 | 22.65 | 24.00 | 21.81           | 21.97 | 22.10 | 22.50 | 22.50 |
| SCPP Rel 5  | HSDSPA-Subnet-3    | 22.01 | 22.06 | 22.16 | 22.90 | 21.04           | 21.06 | 21.04 | 22.00 | 22.00 |
| SCPP Rel 5  | HSDSPA-Subnet-4    | 22.95 | 23.03 | 23.16 | 23.50 | 21.24           | 21.35 | 21.61 | 22.00 | 22.00 |
| SCPP Rel 5  | DC-HSDSPA-Subnet-1 | 22.23 | 22.31 | 22.54 | 24.00 | 21.30           | 21.42 | 21.26 | 22.50 | 22.50 |
| SCPP Rel 5  | DC-HSDSPA-Subnet-2 | 22.16 | 22.40 | 22.46 | 24.00 | 21.06           | 21.06 | 21.04 | 22.00 | 22.00 |
| SCPP Rel 5  | DC-HSDSPA-Subnet-3 | 22.71 | 22.92 | 22.98 | 23.50 | 20.53           | 20.57 | 20.50 | 22.00 | 22.00 |
| SCPP Rel 5  | DC-HSDSPA-Subnet-4 | 22.71 | 22.90 | 22.90 | 23.50 | 20.80           | 20.90 | 20.91 | 22.00 | 22.00 |
| SCPP Rel 5  | HSDSPA-Subnet-5    | 22.43 | 22.50 | 22.70 | 24.00 | 21.80           | 21.94 | 22.12 | 22.50 | 22.50 |
| SCPP Rel 5  | HSDSPA-Subnet-6    | 21.34 | 21.54 | 21.73 | 22.00 | 19.82           | 20.03 | 20.10 | 20.50 | 20.50 |
| SCPP Rel 5  | HSDSPA-Subnet-7    | 22.41 | 22.53 | 22.80 | 23.00 | 20.80           | 20.93 | 21.22 | 21.50 | 21.50 |
| SCPP Rel 5  | HSDSPA-Subnet-8    | 21.43 | 21.57 | 21.74 | 22.00 | 19.80           | 19.90 | 20.10 | 20.50 | 20.50 |
| SCPP Rel 5  | HSDSPA-Subnet-9    | 22.50 | 22.50 | 22.70 | 24.00 | 21.78           | 21.87 | 22.17 | 22.50 | 22.50 |



| Band 2_Ant 1    |            |             |              |                             |                             |                             |                  |                   |             |             |             |
|-----------------|------------|-------------|--------------|-----------------------------|-----------------------------|-----------------------------|------------------|-------------------|-------------|-------------|-------------|
| BVR<br>[MHz]    | Modulation | RB<br>[MHz] | FB<br>Offset | Power<br>Level<br>[Ch./Fps] | Power<br>Level<br>[Ch./Fps] | Power<br>Level<br>[Ch./Fps] | Turn-on<br>(sec) | Turn-off<br>(sec) | LPR<br>(dB) | LPR<br>(dB) | LPR<br>(dB) |
| Channel         |            |             |              | 18100                       | 18100                       | 19150                       |                  |                   |             |             |             |
| 20              | QPSK       | 1           | 0            | 15.22                       | 15.39                       | 15.24                       |                  |                   |             |             |             |
| 20              | QPSK       | 1           | 40           | 15.30                       | 15.30                       | 15.30                       |                  |                   |             |             |             |
| 20              | QPSK       | 1           | 80           | 15.25                       | 15.25                       | 15.14                       | 16.6             | 0                 |             |             |             |
| 20              | QPSK       | 50          | 0            | 15.22                       | 15.40                       | 15.26                       |                  |                   |             |             |             |
| 20              | QPSK       | 50          | 24           | 15.32                       | 15.37                       | 15.31                       | 16.6             | 0                 |             |             |             |
| 20              | QPSK       | 50          | 50           | 15.38                       | 15.38                       | 15.24                       |                  |                   |             |             |             |
| 20              | QPSK       | 100         | 0            | 15.29                       | 15.42                       | 15.26                       |                  |                   |             |             |             |
| 20              | 16QAM      | 1           | 0            | 15.21                       | 15.40                       | 15.26                       |                  |                   |             |             |             |
| 20              | 16QAM      | 1           | 40           | 15.32                       | 15.39                       | 15.27                       | 16.6             | 0                 |             |             |             |
| 20              | 16QAM      | 1           | 80           | 15.41                       | 15.40                       | 15.13                       |                  |                   |             |             |             |
| 20              | 16QAM      | 50          | 0            | 15.19                       | 15.43                       | 15.31                       |                  |                   |             |             |             |
| 20              | 16QAM      | 50          | 24           | 15.30                       | 15.43                       | 15.25                       | 16.6             | 0                 |             |             |             |
| 20              | 16QAM      | 50          | 50           | 15.36                       | 15.36                       | 15.22                       |                  |                   |             |             |             |
| 20              | 16QAM      | 100         | 0            | 15.29                       | 15.38                       | 15.24                       |                  |                   |             |             |             |
| 20              | 16QAM      | 1           | 0            | 15.24                       | 15.40                       | 15.28                       | 16.6             | 0                 |             |             |             |
| 20              | 16QAM      | 1           | 40           | 15.38                       | 15.44                       | 15.32                       |                  |                   |             |             |             |
| 20              | 16QAM      | 1           | 80           | 15.31                       | 15.41                       | 15.17                       |                  |                   |             |             |             |
| 20              | 16QAM      | 50          | 0            | 15.19                       | 15.42                       | 15.26                       |                  |                   |             |             |             |
| 20              | 16QAM      | 50          | 24           | 15.30                       | 15.42                       | 15.25                       | 16.6             | 0                 |             |             |             |
| 20              | 16QAM      | 50          | 50           | 15.38                       | 15.41                       | 15.19                       |                  |                   |             |             |             |
| 20              | 16QAM      | 100         | 0            | 15.27                       | 15.38                       | 15.25                       |                  |                   |             |             |             |
| 20              | 256QAM     | 1           | 0            | 15.30                       | 15.30                       | 15.29                       |                  |                   |             |             |             |
| 20              | 256QAM     | 1           | 40           | 15.30                       | 15.40                       | 15.24                       | 16.6             | 0                 |             |             |             |
| 20              | 256QAM     | 1           | 80           | 15.12                       | 15.19                       | 15.21                       |                  |                   |             |             |             |
| 20              | 256QAM     | 50          | 0            | 15.17                       | 15.34                       | 15.29                       |                  |                   |             |             |             |
| 20              | 256QAM     | 50          | 24           | 15.38                       | 15.44                       | 15.28                       | 16.6             | 0                 |             |             |             |
| 20              | 256QAM     | 50          | 50           | 15.18                       | 15.38                       | 15.13                       |                  |                   |             |             |             |
| 20              | 256QAM     | 100         | 0            | 15.16                       | 15.39                       | 15.14                       |                  |                   |             |             |             |
| Channel         |            |             |              | 18150                       | 19050                       | 19150                       | Turn-on<br>(sec) | Turn-off<br>(sec) | LPR<br>(dB) | LPR<br>(dB) | LPR<br>(dB) |
| Frequency [MHz] |            |             |              | 18150                       | 18150                       | 19050                       |                  |                   |             |             |             |
| 15              | QPSK       | 1           | 0            | 15.08                       | 15.11                       | 15.03                       | 16.6             | 0                 |             |             |             |
| 15              | QPSK       | 1           | 37           | 15.28                       | 15.38                       | 15.22                       |                  |                   |             |             |             |
| 15              | QPSK       | 1           | 74           | 15.13                       | 15.12                       | 14.88                       |                  |                   |             |             |             |
| 15              | QPSK       | 36          | 0            | 15.03                       | 15.08                       | 15.01                       | 16.6             | 0                 |             |             |             |
| 15              | QPSK       | 36          | 20           | 15.15                       | 15.28                       | 15.11                       |                  |                   |             |             |             |
| 15              | QPSK       | 36          | 36           | 15.13                       | 15.23                       | 15.06                       |                  |                   |             |             |             |
| 15              | QPSK       | 36          | 50           | 15.08                       | 15.41                       | 15.14                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.22                       | 15.12                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.24                       | 15.37                       | 15.26                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.27                       | 15.17                       | 14.82                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 99           | 14.98                       | 15.27                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.13                       | 15.20                       | 14.98                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 15.20                       | 15.30                       | 15.27                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.17                       | 15.18                       | 15.16                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.00                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             |             |
| 15              | 16QAM      | 36          | 36           | 15.07                       | 15.28                       | 15.03                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 50           | 15.22                       | 15.20                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 37           | 15.10                       | 15.20                       | 15.09                       |                  |                   |             |             |             |
| 15              | 16QAM      | 1           | 74           | 15.03                       | 15.28                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 0            | 14.96                       | 15.24                       | 15.04                       |                  |                   |             |             |             |
| 15              | 16QAM      | 36          | 20           | 15.27                       | 15.10                       | 15.08                       | 16.6             | 0                 |             |             | </          |



| Band 5_Ant 0    |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|----------------------|--------------------|-----------|--|----|---|
| BW (MHz)        | Modulation | RS Rate | RB Offset | Power Low Ch./Freq. | Power High Ch./Freq. | Phase Mod. Ch./Freq. | Phase High Ch./Freq. | Turn-on time (sec) | LPR1 (dB) |  |    |   |
| Channel         |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
| Frequency (MHz) |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
| 10              | QPSK       | 1       | 0         | 22.68               | 22.70                | 22.69                |                      |                    |           |  |    |   |
| 10              | QPSK       | 1       | 25        | 22.62               | 22.65                | 22.63                |                      |                    |           |  |    |   |
| 10              | QPSK       | 1       | 49        | 22.78               | 22.84                | 22.81                |                      |                    |           |  | 0  |   |
| 10              | QPSK       | 25      | 0         | 22.81               | 22.71                | 22.86                |                      |                    |           |  |    |   |
| 10              | QPSK       | 25      | 12        | 22.84               | 22.85                | 22.83                |                      |                    |           |  |    |   |
| 10              | QPSK       | 25      | 25        | 22.68               | 22.74                | 22.64                |                      |                    |           |  | 0  |   |
| 10              | QPSK       | 50      | 0         | 22.81               | 22.81                | 22.87                |                      |                    |           |  |    |   |
| 10              | QPSK       | 50      | 12        | 22.82               | 22.87                | 22.73                |                      |                    |           |  |    |   |
| 10              | 16QAM      | 1       | 25        | 22.72               | 22.88                | 22.85                |                      |                    |           |  |    |   |
| 10              | 16QAM      | 1       | 49        | 22.82               | 22.92                | 22.90                |                      |                    |           |  |    |   |
| 10              | 16QAM      | 25      | 0         | 22.64               | 22.67                | 22.63                |                      |                    |           |  |    |   |
| 10              | 16QAM      | 25      | 12        | 22.62               | 22.67                | 22.67                |                      |                    |           |  |    |   |
| 10              | 16QAM      | 25      | 25        | 22.74               | 22.84                | 22.73                |                      |                    |           |  |    |   |
| 10              | 16QAM      | 50      | 0         | 22.79               | 22.70                | 22.74                |                      |                    |           |  |    |   |
| 10              | 8QAM       | 1       | 0         | 22.65               | 22.65                | 22.69                |                      |                    |           |  |    |   |
| 10              | 8QAM       | 1       | 25        | 22.48               | 22.57                | 22.64                |                      |                    |           |  |    |   |
| 10              | 8QAM       | 1       | 49        | 22.80               | 22.81                | 22.82                |                      |                    |           |  |    |   |
| 10              | 8QAM       | 25      | 0         | 21.36               | 21.36                | 21.41                |                      |                    |           |  |    |   |
| 10              | 8QAM       | 25      | 12        | 21.41               | 21.43                | 21.40                |                      |                    |           |  |    |   |
| 10              | 8QAM       | 25      | 25        | 21.44               | 21.35                | 21.31                |                      |                    |           |  | 23 | 1 |
| 10              | 8QAM       | 50      | 0         | 21.48               | 21.47                | 21.56                |                      |                    |           |  |    |   |
| 10              | 25QAM      | 1       | 0         | 19.85               | 19.87                | 19.88                |                      |                    |           |  |    |   |
| 10              | 25QAM      | 1       | 25        | 19.87               | 19.87                | 19.86                |                      |                    |           |  | 21 | 3 |
| 10              | 25QAM      | 1       | 49        | 19.74               | 19.75                | 19.79                |                      |                    |           |  |    |   |
| 10              | 25QAM      | 25      | 0         | 19.78               | 19.78                | 19.79                |                      |                    |           |  |    |   |
| 10              | 25QAM      | 25      | 12        | 19.82               | 19.83                | 19.71                |                      |                    |           |  |    |   |
| 10              | 25QAM      | 25      | 25        | 19.77               | 19.88                | 19.75                |                      |                    |           |  |    |   |
| 10              | 25QAM      | 50      | 0         | 19.89               | 19.87                | 19.76                |                      |                    |           |  |    |   |
| Channel         |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
| Frequency (MHz) |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
| 5               | QPSK       | 1       | 0         | 22.73               | 22.81                | 22.82                |                      |                    |           |  |    |   |
| 5               | QPSK       | 1       | 12        | 22.66               | 22.66                | 22.69                |                      |                    |           |  | 24 | 0 |
| 5               | QPSK       | 1       | 24        | 22.73               | 22.81                | 22.87                |                      |                    |           |  |    |   |
| 5               | QPSK       | 12      | 7         | 22.62               | 22.71                | 22.63                |                      |                    |           |  |    |   |
| 5               | QPSK       | 12      | 7         | 22.67               | 22.69                | 22.68                |                      |                    |           |  |    |   |
| 5               | QPSK       | 12      | 13        | 22.48               | 22.54                | 22.66                |                      |                    |           |  |    |   |
| 5               | QPSK       | 25      | 24        | 22.58               | 22.70                | 22.81                |                      |                    |           |  |    |   |
| 5               | 16QAM      | 1       | 12        | 22.61               | 22.64                | 22.61                |                      |                    |           |  |    |   |
| 5               | 16QAM      | 1       | 24        | 22.58               | 22.65                | 22.63                |                      |                    |           |  |    |   |
| 5               | 16QAM      | 12      | 0         | 22.69               | 22.69                | 22.67                |                      |                    |           |  |    |   |
| 5               | 16QAM      | 12      | 7         | 22.60               | 22.78                | 22.82                |                      |                    |           |  |    |   |
| 5               | 16QAM      | 12      | 13        | 22.63               | 22.73                | 22.61                |                      |                    |           |  |    |   |
| 5               | 16QAM      | 25      | 24        | 22.47               | 22.56                | 22.57                |                      |                    |           |  |    |   |
| 5               | 8QAM       | 1       | 0         | 22.65               | 22.62                | 22.65                |                      |                    |           |  |    |   |
| 5               | 8QAM       | 1       | 12        | 22.44               | 22.48                | 22.77                |                      |                    |           |  |    |   |
| 5               | 8QAM       | 1       | 24        | 22.58               | 22.70                | 22.81                |                      |                    |           |  |    |   |
| 5               | 8QAM       | 12      | 0         | 21.17               | 21.38                | 21.40                |                      |                    |           |  |    |   |
| 5               | 8QAM       | 12      | 7         | 21.25               | 21.25                | 21.16                |                      |                    |           |  |    |   |
| 5               | 8QAM       | 12      | 13        | 21.38               | 21.27                | 21.41                |                      |                    |           |  |    |   |
| 5               | 8QAM       | 25      | 24        | 21.35               | 21.41                | 21.37                |                      |                    |           |  |    |   |
| 5               | 25QAM      | 1       | 0         | 19.75               | 19.67                | 19.62                |                      |                    |           |  |    |   |
| 5               | 25QAM      | 1       | 12        | 19.80               | 19.84                | 19.87                |                      |                    |           |  |    |   |
| 5               | 25QAM      | 1       | 24        | 19.75               | 19.75                | 19.75                |                      |                    |           |  |    |   |
| 5               | 25QAM      | 12      | 0         | 19.75               | 19.65                | 19.67                |                      |                    |           |  |    |   |
| 5               | 25QAM      | 12      | 7         | 19.73               | 19.81                | 19.85                |                      |                    |           |  |    |   |
| 5               | 25QAM      | 12      | 13        | 19.84               | 19.85                | 19.85                |                      |                    |           |  |    |   |
| 5               | 25QAM      | 25      | 0         | 19.84               | 19.80                | 19.73                |                      |                    |           |  |    |   |
| Channel         |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
| Frequency (MHz) |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
| 3               | QPSK       | 1       | 0         | 22.48               | 22.48                | 22.48                |                      |                    |           |  |    |   |
| 3               | QPSK       | 1       | 0         | 22.81               | 22.80                | 22.87                |                      |                    |           |  |    |   |
| 3               | QPSK       | 1       | 14        | 22.59               | 22.60                | 22.68                |                      |                    |           |  |    |   |
| 3               | QPSK       | 8       | 0         | 22.58               | 22.71                | 22.48                |                      |                    |           |  |    |   |
| 3               | QPSK       | 8       | 25        | 22.85               | 22.88                | 22.79                |                      |                    |           |  |    |   |
| 3               | QPSK       | 8       | 7         | 22.43               | 22.46                | 22.56                |                      |                    |           |  |    |   |
| 3               | QPSK       | 16      | 0         | 22.61               | 22.63                | 22.64                |                      |                    |           |  |    |   |
| 3               | 16QAM      | 1       | 0         | 22.75               | 22.75                | 22.75                |                      |                    |           |  |    |   |
| 3               | 16QAM      | 1       | 8         | 22.62               | 22.82                | 22.80                |                      |                    |           |  |    |   |
| 3               | 16QAM      | 1       | 14        | 22.60               | 22.85                | 22.81                |                      |                    |           |  |    |   |
| 3               | 16QAM      | 8       | 0         | 22.67               | 22.81                | 22.87                |                      |                    |           |  |    |   |
| 3               | 16QAM      | 8       | 7         | 22.69               | 22.57                | 22.74                |                      |                    |           |  |    |   |
| 3               | 16QAM      | 16      | 0         | 22.71               | 22.63                | 22.65                |                      |                    |           |  |    |   |
| 3               | 8QAM       | 1       | 0         | 22.51               | 22.36                | 22.87                |                      |                    |           |  |    |   |
| 3               | 8QAM       | 1       | 8         | 22.55               | 22.60                | 22.77                |                      |                    |           |  |    |   |
| 3               | 8QAM       | 1       | 14        | 22.58               | 22.63                | 22.51                |                      |                    |           |  |    |   |
| 3               | 8QAM       | 8       | 0         | 21.52               | 21.35                | 21.26                |                      |                    |           |  |    |   |
| 3               | 8QAM       | 8       | 4         | 21.34               | 21.47                | 21.27                |                      |                    |           |  |    |   |
| 3               | 8QAM       | 8       | 7         | 21.25               | 21.34                | 21.48                |                      |                    |           |  |    |   |
| 3               | 8QAM       | 16      | 0         | 21.53               | 21.47                | 21.36                |                      |                    |           |  |    |   |
| 3               | 25QAM      | 1       | 0         | 19.86               | 19.82                | 19.89                |                      |                    |           |  |    |   |
| 3               | 25QAM      | 1       | 8         | 19.83               | 19.85                | 19.89                |                      |                    |           |  |    |   |
| 3               | 25QAM      | 1       | 14        | 19.81               | 19.84                | 19.87                |                      |                    |           |  |    |   |
| 3               | 25QAM      | 8       | 0         | 19.87               | 19.75                | 19.75                |                      |                    |           |  |    |   |
| 3               | 25QAM      | 8       | 4         | 19.81               | 19.75                | 19.65                |                      |                    |           |  |    |   |
| 3               | 25QAM      | 8       | 7         | 19.72               | 19.81                | 19.85                |                      |                    |           |  |    |   |
| 3               | 25QAM      | 16      | 0         | 19.76               | 19.87                | 19.88                |                      |                    |           |  |    |   |
| Channel         |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
| Frequency (MHz) |            |         |           |                     |                      |                      |                      |                    |           |  |    |   |
| 1.4             | QPSK       | 1       | 0         | 22.63               | 22.68                | 22.62                |                      |                    |           |  |    |   |
| 1.4             | QPSK       | 1       | 8         | 22.67               | 22.62                | 22.62                |                      |                    |           |  |    |   |
| 1.4             | QPSK       | 1       | 5         | 22.78               | 22.62                | 22.84                |                      |                    |           |  |    |   |
| 1.4             | QPSK       | 3       | 0         | 22.68               | 22.65                | 22.75                |                      |                    |           |  |    |   |
| 1.4             | QPSK       | 3       | 5         | 22.66               | 22.69                | 22.81                |                      |                    |           |  |    |   |
| 1.4             | QPSK       | 3       | 3         | 22.59               | 22.62                | 22.70                |                      |                    |           |  |    |   |
| 1.4             | QPSK       | 6       | 0         | 22.63               | 22.70                | 22.75                |                      |                    |           |  |    |   |
| 1.4             | 16QAM      | 1       | 0         | 22.61               | 22.74                | 22.81                |                      |                    |           |  |    |   |
| 1.4             | 16QAM      | 1       | 8         | 22.67               | 22.86                | 22.83                |                      |                    |           |  |    |   |
| 1.4             | 16QAM      | 1       | 5         | 22.58               | 22.69                | 22.75                |                      |                    |           |  |    |   |
| 1.4             | 16QAM      | 3       | 0         | 22.63               | 22.62                | 22.69                |                      |                    |           |  |    |   |
| 1.4             | 16QAM      | 3       | 5         | 22.64               | 22.60                | 22.65                |                      |                    |           |  |    |   |
| 1.4             | 16QAM      | 3       | 3         | 22.53               | 22.60                | 22.79                |                      |                    |           |  |    |   |
| 1.4             | 16QAM      | 6       | 0         | 22.76               | 22.48                | 22.75                |                      |                    |           |  |    |   |
| 1.4             | 8QAM       | 1       | 0         | 22.70               | 22.64                | 22.82                |                      |                    |           |  |    |   |
| 1.4             | 8QAM       | 1       | 5         | 22.36               | 22.63                | 22.67                |                      |                    |           |  |    |   |
| 1.4             | 8QAM       | 1       | 5         | 22.34               | 22.72                | 22.81                |                      |                    |           |  |    |   |
| 1.4             | 8QAM       | 3       | 0         | 22.20               | 22.21                | 22.47                |                      |                    |           |  |    |   |
| 1.4             | 8QAM       | 3       | 5         | 22.47               | 22.42                | 22.25                |                      |                    |           |  |    |   |
| 1.4             | 8QAM       | 3       | 3         | 22.51               | 22.20                | 22.63                |                      |                    |           |  |    |   |
| 1.4             | 8QAM       | 6       | 0         | 21.58               | 21.53                | 21.65                |                      |                    |           |  |    |   |
| 1.4             | 25QAM      | 1       | 0         | 19.82               | 19.80                | 19.84                |                      |                    |           |  |    |   |
| 1.4             | 25QAM      | 1       | 5         | 19.78               | 19.79                | 19.80                |                      |                    |           |  |    |   |
| 1.4             | 25QAM      | 1       | 5         | 19.73               | 19.84                | 19.79                |                      |                    |           |  |    |   |
| 1.4             | 25QAM      | 3       | 0         | 19.87               | 19.87                | 19.86                |                      |                    |           |  |    |   |
| 1.4             | 25QAM      | 3       | 3         | 19.72               | 19.70                | 19.89                |                      |                    |           |  |    |   |
| 1.4             | 25QAM      | 3       | 3         | 19.75               | 19.82                | 19.84                |                      |                    |           |  |    |   |
| 1.4             | 25QAM      | 6       | 0         | 19.76               | 19.76                | 19.75                |                      |                    |           |  |    |   |

| Band 5_Ant 1    |            |            |              |                            |                             |                             |                             |                          |              |     |  |   |
|-----------------|------------|------------|--------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------|--------------|-----|--|---|
| BW<br>(MHz)     | Modulation | RS<br>Rate | RB<br>Offset | Power<br>Low<br>(Ch./Freq) | Power<br>High<br>(Ch./Freq) | Phase<br>Mod.<br>(Ch./Freq) | Phase<br>High<br>(Ch./Freq) | Turn-on<br>time<br>(sec) | MFR<br>(dB)  |     |  |   |
| Channel         |            |            |              |                            |                             |                             |                             |                          |              |     |  |   |
| Frequency (MHz) |            |            |              | 20455                      | 20525                       | 20595                       | 20665                       |                          |              |     |  |   |
| 10              | QPSK       | 1          | 0            | 21.78                      | 21.62                       | 21.89                       |                             |                          |              |     |  |   |
| 10              | QPSK       | 1          | 25           | 21.52                      | 21.58                       | 21.56                       |                             |                          |              |     |  |   |
| 10              | QPSK       | 1          | 49           | 21.66                      | 21.68                       | 21.62                       |                             |                          | 23.1         |     |  | 0 |
| 10              | QPSK       | 25         | 0            | 21.70                      | 21.70                       | 21.86                       |                             |                          |              |     |  |   |
| 10              | QPSK       | 25         | 12           | 21.77                      | 21.58                       | 21.53                       |                             |                          |              |     |  |   |
| 10              | QPSK       | 25         | 25           | 21.70                      | 21.65                       | 21.88                       |                             |                          | 23.1         |     |  | 0 |
| 10              | QPSK       | 50         | 0            | 21.74                      | 21.68                       | 21.75                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 1          | 0            | 21.80                      | 21.75                       | 21.85                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 1          | 25           | 21.78                      | 21.82                       | 21.60                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 1          | 26           | 21.77                      | 21.80                       | 21.87                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 25         | 0            | 21.51                      | 21.60                       | 21.87                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 25         | 0            | 21.63                      | 21.64                       | 21.85                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 25         | 12           | 21.69                      | 21.78                       | 21.67                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 25         | 25           | 21.70                      | 21.65                       | 21.88                       |                             |                          | 23.1         |     |  | 0 |
| 10              | 16QAM      | 50         | 0            | 21.66                      | 21.73                       | 21.82                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 50         | 12           | 21.67                      | 21.76                       | 21.76                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 50         | 25           | 21.62                      | 21.68                       | 21.87                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 50         | 49           | 21.69                      | 21.78                       | 21.87                       |                             |                          |              |     |  |   |
| 10              | 16QAM      | 1          | 25           | 19.91                      | 20.03                       | 19.95                       |                             |                          | 21           | 2.1 |  |   |
| 10              | 256QAM     | 1          | 49           | 19.84                      | 19.95                       | 20.01                       |                             |                          |              |     |  |   |
| 10              | 256QAM     | 25         | 0            | 19.79                      | 19.73                       | 19.78                       |                             |                          |              |     |  |   |
| 10              | 256QAM     | 25         | 12           | 19.87                      | 19.77                       | 19.78                       |                             |                          |              |     |  |   |
| 10              | 256QAM     | 25         | 25           | 19.84                      | 19.91                       | 19.92                       |                             |                          | 21           | 2.1 |  |   |
| 10              | 256QAM     | 50         | 0            | 19.92                      | 20.00                       | 19.88                       |                             |                          |              |     |  |   |
| 10              | 256QAM     | 50         | 12           | 19.93                      | 19.95                       | 19.93                       |                             |                          |              |     |  |   |
| 10              | 256QAM     | 50         | 49           | 19.85                      | 19.93                       | 19.95                       |                             |                          |              |     |  |   |
| 5               | QPSK       | 1          | 0            | 21.62                      | 21.48                       | 21.75                       |                             |                          |              |     |  |   |
| 5               | QPSK       | 1          | 19           | 21.71                      | 21.78                       | 21.73                       |                             |                          | 23.1         |     |  | 0 |
| 5               | QPSK       | 1          | 25           | 21.53                      | 21.70                       | 21.71                       |                             |                          |              |     |  |   |
| 5               | QPSK       | 12         | 0            | 21.47                      | 21.55                       | 21.51                       |                             |                          |              |     |  |   |
| 5               | QPSK       | 12         | 7            | 21.55                      | 21.70                       | 21.77                       |                             |                          |              |     |  |   |
| 5               | QPSK       | 12         | 15           | 21.55                      | 21.68                       | 21.77                       |                             |                          |              |     |  |   |
| 5               | QPSK       | 12         | 23           | 21.51                      | 21.68                       | 21.68                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 1          | 0            | 21.62                      | 21.58                       | 21.67                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 1          | 19           | 21.56                      | 21.71                       | 21.74                       |                             |                          | 23.1         |     |  | 0 |
| 5               | 16QAM      | 1          | 25           | 21.47                      | 21.65                       | 21.63                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 12         | 0            | 21.40                      | 21.50                       | 21.54                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 12         | 7            | 21.54                      | 21.59                       | 21.78                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 12         | 15           | 21.47                      | 21.57                       | 21.63                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 12         | 23           | 21.56                      | 21.67                       | 21.65                       |                             |                          | 23.1         |     |  | 0 |
| 5               | 16QAM      | 1          | 0            | 21.68                      | 21.61                       | 21.77                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 1          | 12           | 21.60                      | 21.63                       | 21.68                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 1          | 19           | 21.51                      | 21.68                       | 21.71                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 12         | 0            | 21.35                      | 21.57                       | 21.61                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 12         | 7            | 21.32                      | 21.61                       | 21.73                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 12         | 15           | 21.30                      | 21.42                       | 21.70                       |                             |                          |              |     |  |   |
| 5               | 16QAM      | 12         | 23           | 21.41                      | 21.45                       | 21.65                       |                             |                          | 23           | 0.1 |  |   |
| 5               | 256QAM     | 1          | 0            | 19.85                      | 19.93                       | 19.97                       |                             |                          |              |     |  |   |
| 5               | 256QAM     | 1          | 12           | 19.58                      | 19.67                       | 19.78                       |                             |                          | 21           | 2.1 |  |   |
| 5               | 256QAM     | 1          | 25           | 19.72                      | 19.76                       | 19.85                       |                             |                          |              |     |  |   |
| 5               | 256QAM     | 12         | 0            | 19.48                      | 19.54                       | 19.57                       |                             |                          |              |     |  |   |
| 5               | 256QAM     | 12         | 7            | 19.66                      | 19.92                       | 19.98                       |                             |                          |              |     |  |   |
| 5               | 256QAM     | 12         | 15           | 19.77                      | 19.88                       | 19.97                       |                             |                          | 21           | 2.1 |  |   |
| 5               | 256QAM     | 12         | 23           | 19.77                      | 19.88                       | 19.97                       |                             |                          |              |     |  |   |
| Channel         |            |            |              |                            |                             |                             |                             |                          |              |     |  |   |
| Frequency (MHz) |            |            |              | 20415                      | 20475                       | 20535                       | 20595                       |                          | LPR1<br>(dB) |     |  |   |
| 3               | QPSK       | 1          | 0            | 21.75                      | 21.59                       | 21.68                       |                             |                          |              |     |  |   |
| 3               | QPSK       | 1          | 25           | 21.69                      | 21.69                       | 21.73                       |                             |                          | 23.1         |     |  | 0 |
| 3               | QPSK       | 1          | 14           | 21.53                      | 21.67                       | 21.79                       |                             |                          |              |     |  |   |
| 3               | QPSK       | 8          | 0            | 21.60                      | 21.48                       | 21.67                       |                             |                          |              |     |  |   |
| 3               | QPSK       | 8          | 7            | 21.56                      | 21.51                       | 21.75                       |                             |                          | 23.1         |     |  | 0 |
| 3               | QPSK       | 8          | 7            | 21.54                      | 21.71                       | 21.77                       |                             |                          |              |     |  |   |
| 3               | QPSK       | 15         | 0            | 21.57                      | 21.70                       | 21.67                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 1          | 0            | 21.62                      | 21.67                       | 21.73                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 1          | 25           | 21.58                      | 21.70                       | 21.80                       |                             |                          | 23.1         |     |  | 0 |
| 3               | 16QAM      | 1          | 14           | 21.62                      | 21.73                       | 21.83                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 8          | 0            | 21.48                      | 21.45                       | 21.68                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 8          | 7            | 21.53                      | 21.53                       | 21.77                       |                             |                          | 23.1         |     |  | 0 |
| 3               | 16QAM      | 8          | 7            | 21.45                      | 21.68                       | 21.75                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 15         | 0            | 21.46                      | 21.58                       | 21.72                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 15         | 0            | 21.50                      | 21.62                       | 21.74                       |                             |                          | 23.1         |     |  | 0 |
| 3               | 16QAM      | 1          | 14           | 21.42                      | 21.49                       | 21.85                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 8          | 0            | 21.32                      | 21.49                       | 21.81                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 8          | 7            | 21.36                      | 21.43                       | 21.78                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 8          | 7            | 21.24                      | 21.75                       | 21.48                       |                             |                          | 23           | 0.1 |  |   |
| 3               | 16QAM      | 15         | 0            | 21.42                      | 21.41                       | 21.85                       |                             |                          |              |     |  |   |
| 3               | 16QAM      | 15         | 0            | 21.46                      | 21.76                       | 21.48                       |                             |                          |              |     |  |   |
| 3               | 256QAM     | 1          | 0            | 19.66                      | 19.68                       | 19.87                       |                             |                          | 21           | 2.1 |  |   |
| 3               | 256QAM     | 1          | 14           | 19.62                      | 19.71                       | 19.81                       |                             |                          |              |     |  |   |
| 3               | 256QAM     | 8          | 0            | 19.47                      | 19.48                       | 19.81                       |                             |                          |              |     |  |   |
| 3               | 256QAM     | 8          | 7            | 19.47                      | 19.57                       | 19.81                       |                             |                          |              |     |  |   |
| 3               | 256QAM     | 8          | 7            | 19.52                      | 19.66                       | 19.76                       |                             |                          | 21           | 2.1 |  |   |
| 3               | 256QAM     | 15         | 0            | 19.67                      | 19.87                       | 19.84                       |                             |                          |              |     |  |   |
| 3               | 256QAM     | 15         | 0            | 19.71                      | 19.85                       | 19.85                       |                             |                          |              |     |  |   |
| Frequency (MHz) |            |            |              | 20475                      | 20535                       | 20595                       |                             | LPR1<br>(dB)             |              |     |  |   |
| 1.4             | QPSK       | 1          | 0            | 21.67                      | 21.38                       | 21.83                       |                             |                          |              |     |  |   |
| 1.4             | QPSK       | 1          | 3            | 21.65                      | 21.75                       | 21.81                       |                             |                          |              |     |  |   |
| 1.4             | QPSK       | 1          | 6            | 21.69                      | 21.69                       | 21.73                       |                             |                          | 23.1         |     |  | 0 |
| 1.4             | QPSK       | 3          | 0            | 21.49                      | 21.47                       | 21.64                       |                             |                          |              |     |  |   |
| 1.4             | QPSK       | 3          | 1            | 21.56                      | 21.72                       | 21.75                       |                             |                          |              |     |  |   |
| 1.4             | QPSK       | 3          | 3            | 21.47                      | 21.64                       | 21.66                       |                             |                          |              |     |  |   |
| 1.4             | QPSK       | 3          | 6            | 21.63                      | 21.73                       | 21.68                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 1          | 0            | 21.57                      | 21.61                       | 21.72                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 1          | 3            | 21.62                      | 21.60                       | 21.69                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 1          | 6            | 21.66                      | 21.66                       | 21.74                       |                             |                          | 23.1         |     |  | 0 |
| 1.4             | 16QAM      | 3          | 0            | 21.50                      | 21.42                       | 21.63                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 3          | 1            | 21.47                      | 21.65                       | 21.71                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 3          | 3            | 21.43                      | 21.62                       | 21.63                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 3          | 6            | 21.52                      | 21.47                       | 21.54                       |                             |                          | 23.1         |     |  | 0 |
| 1.4             | 16QAM      | 1          | 0            | 21.84                      | 21.59                       | 21.75                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 1          | 3            | 21.51                      | 21.43                       | 21.79                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 1          | 6            | 21.57                      | 21.46                       | 21.81                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 3          | 0            | 21.33                      | 21.58                       | 21.49                       |                             |                          | 23.1         |     |  | 0 |
| 1.4             | 16QAM      | 3          | 1            | 21.41                      | 21.59                       | 21.54                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 3          | 3            | 21.26                      | 21.46                       | 21.41                       |                             |                          |              |     |  |   |
| 1.4             | 16QAM      | 3          | 6            | 21.52                      | 21.47                       | 21.54                       |                             |                          | 23           | 0.1 |  |   |
| 1.4             | 256QAM     | 1          | 0            | 19.32                      | 19.64                       | 19.78                       |                             |                          |              |     |  |   |
| 1.4             | 256QAM     | 1          | 3            | 19.65                      | 19.80                       | 19.75                       |                             |                          |              |     |  |   |
| 1.4             | 256QAM     | 1          | 6            | 19.71                      | 19.85                       | 19.81                       |                             |                          |              |     |  |   |
| 1.4             | 256QAM     | 3          | 0            | 19.43                      | 19.45                       | 19.45                       |                             |                          | 21           | 2.1 |  |   |
| 1.4             | 256QAM     | 3          | 1            | 19.78                      | 19.98                       | 19.98                       |                             |                          |              |     |  |   |
| 1.4             | 256QAM     | 3          | 3            | 19.89                      | 19.94                       | 19.94                       |                             |                          |              |     |  |   |
| 1.4             | 256QAM     | 3          | 6            | 19.99                      | 19.93                       | 19.93                       |                             |                          | 21           | 2.1 |  |   |

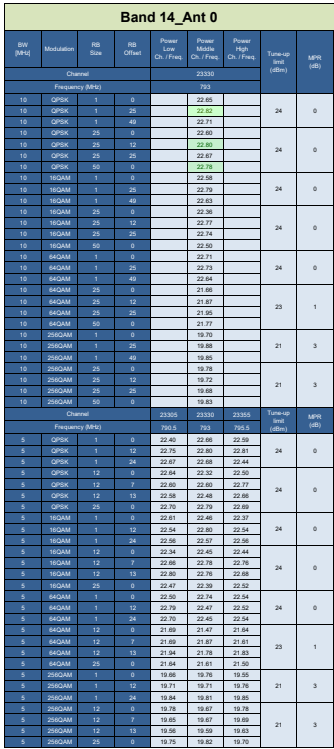


Band 12\_Ant 0

| RF<br>MHz       | Modulation | RF<br>Band | RF<br>Offset | Power<br>Low<br>Ch./1.Freq. | Power<br>Med.<br>Ch./1.Freq. | Power<br>High<br>Ch./1.Freq. | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |
|-----------------|------------|------------|--------------|-----------------------------|------------------------------|------------------------------|---------------------------|--------------|
| Channel         |            |            |              |                             |                              |                              |                           |              |
| Frequency (MHz) |            |            |              |                             |                              |                              |                           |              |
| 10              | QPSK       | 1          | 0            | 22.84                       | 22.94                        | 23.10                        |                           |              |
| 10              | QPSK       | 1          | 25           | 22.12                       | 22.25                        | 22.35                        | 24                        | 0            |
| 10              | QPSK       | 25         | 0            | 22.96                       | 23.10                        | 23.15                        |                           |              |
| 10              | QPSK       | 25         | 5            | 22.90                       | 22.98                        | 22.80                        |                           |              |
| 10              | QPSK       | 28         | 12           | 22.10                       | 22.24                        | 22.14                        | 24                        | 0            |
| 10              | QPSK       | 25         | 25           | 22.85                       | 22.98                        | 22.98                        |                           |              |
| 10              | QPSK       | 50         | 0            | 22.90                       | 22.92                        | 22.98                        |                           |              |
| 10              | HQAM       | 1          | 0            | 22.12                       | 22.13                        | 22.13                        |                           |              |
| 10              | HQAM       | 1          | 25           | 22.87                       | 22.14                        | 22.05                        | 24                        | 0            |
| 10              | HQAM       | 1          | 40           | 22.11                       | 22.09                        | 22.14                        |                           |              |
| 10              | HQAM       | 25         | 0            | 22.02                       | 22.18                        | 22.12                        |                           |              |
| 10              | HQAM       | 25         | 12           | 22.24                       | 22.01                        | 22.15                        | 24                        | 0            |
| 10              | HQAM       | 25         | 40           | 22.06                       | 22.02                        | 22.15                        |                           |              |
| 10              | HQAM       | 50         | 0            | 22.02                       | 22.08                        | 22.08                        |                           |              |
| 10              | HQAM       | 1          | 0            | 22.36                       | 22.08                        | 22.08                        |                           |              |
| 10              | HQAM       | 1          | 25           | 22.19                       | 22.26                        | 22.19                        | 24                        | 0            |
| 10              | HQAM       | 1          | 40           | 22.01                       | 22.09                        | 22.08                        |                           |              |
| 10              | HQAM       | 25         | 0            | 21.64                       | 21.68                        | 21.37                        |                           |              |
| 10              | HQAM       | 25         | 12           | 21.51                       | 21.52                        | 21.78                        | 23                        | 1            |
| 10              | HQAM       | 25         | 40           | 21.48                       | 21.50                        | 21.34                        |                           |              |
| 10              | HQAM       | 50         | 0            | 21.05                       | 21.62                        | 21.76                        |                           |              |
| 10              | 25QAM      | 1          | 0            | 19.87                       | 19.88                        | 19.13                        | 21                        | 3            |
| 10              | 25QAM      | 1          | 25           | 19.88                       | 19.84                        | 19.16                        |                           |              |
| 10              | 25QAM      | 1          | 40           | 19.95                       | 19.15                        | 19.07                        |                           |              |
| 10              | 25QAM      | 25         | 0            | 19.35                       | 19.02                        | 19.37                        |                           |              |
| 10              | 25QAM      | 25         | 12           | 19.01                       | 19.04                        | 19.00                        | 21                        | 3            |
| 10              | 25QAM      | 25         | 40           | 19.00                       | 19.07                        | 19.08                        |                           |              |
| 10              | 25QAM      | 50         | 0            | 19.43                       | 19.09                        | 19.88                        |                           |              |
| Channel         |            |            |              |                             |                              |                              |                           |              |
| Frequency (MHz) |            |            |              |                             |                              |                              |                           |              |
| 5               | QPSK       | 1          | 0            | 22.91                       | 22.99                        | 22.94                        |                           |              |
| 5               | QPSK       | 1          | 12           | 22.98                       | 22.30                        | 22.93                        | 24                        | 0            |
| 5               | QPSK       | 1          | 24           | 22.94                       | 22.23                        | 22.89                        |                           |              |
| 5               | QPSK       | 12         | 0            | 22.98                       | 22.99                        | 22.98                        |                           |              |
| 5               | QPSK       | 12         | 7            | 22.95                       | 22.94                        | 22.93                        | 24                        | 0            |
| 5               | QPSK       | 12         | 13           | 22.92                       | 22.84                        | 22.92                        |                           |              |
| 5               | QPSK       | 25         | 0            | 22.94                       | 22.94                        | 22.94                        |                           |              |
| 5               | HQAM       | 1          | 0            | 22.99                       | 22.81                        | 22.98                        |                           |              |
| 5               | HQAM       | 1          | 12           | 22.92                       | 22.89                        | 22.74                        | 24                        | 0            |
| 5               | HQAM       | 1          | 24           | 22.91                       | 22.86                        | 22.82                        |                           |              |
| 5               | HQAM       | 12         | 0            | 22.90                       | 22.14                        | 22.90                        |                           |              |
| 5               | HQAM       | 12         | 7            | 22.92                       | 22.75                        | 22.94                        | 24                        | 0            |
| 5               | HQAM       | 12         | 13           | 22.91                       | 22.85                        | 22.17                        |                           |              |
| 5               | HQAM       | 25         | 0            | 22.94                       | 22.94                        | 22.94                        |                           |              |
| 5               | HQAM       | 1          | 0            | 22.72                       | 22.68                        | 22.55                        |                           |              |
| 5               | HQAM       | 1          | 12           | 22.88                       | 22.59                        | 22.92                        | 24                        | 0            |
| 5               | HQAM       | 1          | 24           | 22.86                       | 22.56                        | 22.94                        |                           |              |
| 5               | HQAM       | 12         | 0            | 21.53                       | 21.74                        | 21.57                        |                           |              |
| 5               | HQAM       | 12         | 7            | 21.32                       | 21.32                        | 21.79                        | 23                        | 1            |
| 5               | HQAM       | 12         | 13           | 21.38                       | 21.50                        | 21.52                        |                           |              |
| 5               | HQAM       | 25         | 0            | 21.46                       | 21.50                        | 21.39                        |                           |              |
| 5               | 25QAM      | 1          | 0            | 19.86                       | 19.79                        | 19.85                        |                           |              |
| 5               | 25QAM      | 1          | 12           | 19.86                       | 19.14                        | 19.12                        | 21                        | 3            |
| 5               | 25QAM      | 1          | 24           | 19.86                       | 19.06                        | 19.06                        |                           |              |
| 5               | 25QAM      | 12         | 0            | 19.51                       | 19.57                        | 19.51                        |                           |              |
| 5               | 25QAM      | 12         | 7            | 19.61                       | 19.65                        | 19.94                        | 21                        | 3            |
| 5               | 25QAM      | 12         | 13           | 19.60                       | 19.60                        | 19.60                        |                           |              |
| 5               | 25QAM      | 25         | 0            | 19.90                       | 19.95                        | 19.87                        |                           |              |
| Channel         |            |            |              |                             |                              |                              |                           |              |
| Frequency (MHz) |            |            |              |                             |                              |                              |                           |              |
| 1.4             | QPSK       | 1          | 0            | 707.3                       | 707.5                        | 714.1                        |                           |              |
| 1.4             | QPSK       | 1          | 0            | 22.94                       | 22.97                        | 22.98                        | 24                        | 0            |
| 1.4             | QPSK       | 1          | 9            | 22.17                       | 22.21                        | 22.18                        |                           |              |
| 1.4             | QPSK       | 1          | 14           | 22.87                       | 22.12                        | 22.89                        |                           |              |
| 1.4             | QPSK       | 6          | 0            | 22.92                       | 22.92                        | 22.73                        |                           |              |
| 1.4             | QPSK       | 6          | 4            | 22.91                       | 22.89                        | 22.95                        | 24                        | 0            |
| 1.4             | QPSK       | 6          | 7            | 22.79                       | 22.83                        | 22.92                        |                           |              |
| 1.4             | QPSK       | 15         | 0            | 22.96                       | 22.11                        | 22.98                        |                           |              |
| 1.4             | HQAM       | 1          | 0            | 22.91                       | 22.12                        | 22.14                        | 24                        | 0            |
| 1.4             | HQAM       | 1          | 9            | 22.85                       | 22.21                        | 22.93                        |                           |              |
| 1.4             | HQAM       | 1          | 14           | 22.94                       | 22.94                        | 22.59                        |                           |              |
| 1.4             | HQAM       | 6          | 0            | 22.79                       | 22.91                        | 22.86                        |                           |              |
| 1.4             | HQAM       | 6          | 4            | 22.92                       | 22.92                        | 22.92                        |                           |              |
| 1.4             | HQAM       | 6          | 7            | 22.89                       | 22.91                        | 22.94                        | 24                        | 0            |
| 1.4             | HQAM       | 15         | 0            | 22.97                       | 22.93                        | 22.97                        |                           |              |
| 1.4             | HQAM       | 1          | 0            | 22.78                       | 22.86                        | 22.92                        | 24                        | 0            |
| 1.4             | HQAM       | 1          | 9            | 22.94                       | 22.11                        | 22.15                        |                           |              |
| 1.4             | HQAM       | 1          | 14           | 22.93                       | 22.96                        | 22.91                        |                           |              |
| 1.4             | HQAM       | 6          | 0            | 21.61                       | 21.59                        | 21.53                        | 23                        | 1            |
| 1.4             | HQAM       | 6          | 4            | 21.37                       | 21.59                        | 21.55                        |                           |              |
| 1.4             | HQAM       | 6          | 7            | 21.39                       | 21.51                        | 21.58                        |                           |              |
| 1.4             | HQAM       | 15         | 0            | 21.43                       | 21.50                        | 21.53                        |                           |              |
| 1.4             | 25QAM      | 1          | 0            | 19.85                       | 19.83                        | 19.91                        |                           |              |
| 1.4             | 25QAM      | 1          | 9            | 19.92                       | 19.12                        | 19.10                        | 21                        | 3            |
| 1.4             | 25QAM      | 1          | 14           | 19.98                       | 19.96                        | 19.94                        |                           |              |
| 1.4             | 25QAM      | 6          | 0            | 19.95                       | 19.95                        | 19.95                        |                           |              |
| 1.4             | 25QAM      | 6          | 4            | 19.94                       | 19.93                        | 19.94                        | 21                        | 3            |
| 1.4             | 25QAM      | 6          | 7            | 19.96                       | 19.97                        | 19.93                        |                           |              |
| 1.4             | 25QAM      | 15         | 0            | 19.94                       | 19.95                        | 19.98                        |                           |              |
| Channel         |            |            |              |                             |                              |                              |                           |              |
| Frequency (MHz) |            |            |              |                             |                              |                              |                           |              |
| 1.4             | QPSK       | 1          | 0            | 699.7                       | 707.5                        | 710.3                        |                           |              |
| 1.4             | QPSK       | 1          | 0            | 22.92                       | 22.96                        | 22.14                        | 24                        | 0            |
| 1.4             | QPSK       | 1          | 9            | 22.12                       | 22.09                        | 22.18                        |                           |              |
| 1.4             | QPSK       | 1          | 9            | 22.89                       | 22.13                        | 22.98                        |                           |              |
| 1.4             | QPSK       | 3          | 0            | 22.88                       | 22.85                        | 22.86                        |                           |              |
| 1.4             | QPSK       | 3          | 1            | 22.94                       | 22.97                        | 22.12                        |                           |              |
| 1.4             | QPSK       | 3          | 3            | 22.95                       | 22.16                        | 22.84                        | 24                        | 0            |
| 1.4             | QPSK       | 6          | 0            | 22.87                       | 22.10                        | 22.99                        |                           |              |
| 1.4             | HQAM       | 1          | 0            | 22.89                       | 22.26                        | 22.98                        |                           |              |
| 1.4             | HQAM       | 1          | 9            | 22.88                       | 22.91                        | 22.19                        | 24                        | 0            |
| 1.4             | HQAM       | 1          | 9            | 22.71                       | 22.88                        | 22.85                        |                           |              |
| 1.4             | HQAM       | 3          | 0            | 22.89                       | 22.92                        | 22.97                        |                           |              |
| 1.4             | HQAM       | 3          | 11           | 22.75                       | 22.92                        | 22.98                        |                           |              |
| 1.4             | HQAM       | 3          | 3            | 22.83                       | 22.75                        | 22.84                        | 24                        | 0            |
| 1.4             | HQAM       | 6          | 0            | 22.89                       | 22.89                        | 22.92                        | 24                        | 0            |
| 1.4             | HQAM       | 1          | 0            | 22.91                       | 22.94                        | 22.97                        |                           |              |
| 1.4             | HQAM       | 1          | 9            | 22.95                       | 22.15                        | 22.98                        |                           |              |
| 1.4             | HQAM       | 1          | 9            | 22.92                       | 22.97                        | 22.96                        | 24                        | 0            |
| 1.4             | HQAM       | 3          | 0            | 22.99                       | 22.97                        | 22.82                        |                           |              |
| 1.4             | HQAM       | 3          | 1            | 22.77                       | 22.90                        | 22.85                        |                           |              |
| 1.4             | HQAM       | 3          | 3            | 22.51                       | 22.96                        | 22.96                        |                           |              |
| 1.4             | HQAM       | 6          | 0            | 21.26                       | 21.45                        | 21.72                        | 23                        | 1            |
| 1.4             | 25QAM      | 1          | 0            | 19.87                       | 19.84                        | 19.97                        |                           |              |
| 1.4             | 25QAM      | 1          | 5            | 19.91                       | 19.12                        | 19.13                        | 21                        | 3            |
| 1.4             | 25QAM      | 1          | 5            | 19.96                       | 19.10                        | 19.87                        |                           |              |
| 1.4             | 25QAM      | 3          | 0            | 19.87                       | 19.85                        | 19.85                        |                           |              |
| 1.4             | 25QAM      | 3          | 1            | 19.95                       | 19.93                        | 19.98                        |                           |              |
| 1.4             | 25QAM      | 3          | 3            | 19.95                       | 19.94                        | 19.96                        |                           |              |
| 1.4             | 25QAM      | 6          | 0            | 19.97                       | 19.86                        | 19.85                        | 21                        | 3            |

Band 12\_Ant 1

| Band 12 Ant 1   |            |            |              |                             |                              |                              |                           |              |     |
|-----------------|------------|------------|--------------|-----------------------------|------------------------------|------------------------------|---------------------------|--------------|-----|
| RF<br>MHz       | Modulation | RF<br>Band | RF<br>Offset | Power<br>Low<br>Ch./1.Freq. | Power<br>Med.<br>Ch./1.Freq. | Power<br>High<br>Ch./1.Freq. | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |     |
| Channel         |            |            |              |                             |                              |                              |                           |              |     |
| Frequency (MHz) |            |            |              | 21060                       | 21065                        | 21100                        |                           |              |     |
| 10              | QPSK       | 1          | 0            | 22.37                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | QPSK       | 1          | 25           | 22.41                       | 70.5                         | 70.5                         | 71.1                      | 23.4         | 0   |
| 10              | QPSK       | 25         | 0            | 22.39                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | QPSK       | 25         | 5            | 22.12                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | QPSK       | 28         | 12           | 22.10                       | 70.5                         | 70.5                         | 71.1                      | 23.4         | 0   |
| 10              | QPSK       | 25         | 25           | 22.25                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | QPSK       | 50         | 0            | 22.19                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 1          | 0            | 22.16                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 1          | 25           | 22.32                       | 70.5                         | 70.5                         | 71.1                      | 23.4         | 0   |
| 10              | HQAM       | 1          | 40           | 22.30                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 25         | 0            | 22.25                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 25         | 12           | 22.18                       | 70.5                         | 70.5                         | 71.1                      | 23.4         | 0   |
| 10              | HQAM       | 25         | 40           | 22.16                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 50         | 0            | 22.15                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 1          | 0            | 22.19                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 1          | 25           | 22.18                       | 70.5                         | 70.5                         | 71.1                      | 23.4         | 0   |
| 10              | HQAM       | 1          | 40           | 22.19                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 25         | 0            | 21.23                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 25         | 12           | 21.34                       | 70.5                         | 70.5                         | 71.1                      | 23           | 0.4 |
| 10              | HQAM       | 25         | 40           | 21.34                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | HQAM       | 50         | 0            | 21.30                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | 25QAM      | 1          | 0            | 19.81                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | 25QAM      | 1          | 25           | 19.84                       | 70.5                         | 70.5                         | 71.1                      | 21           | 2.4 |
| 10              | 25QAM      | 1          | 40           | 19.86                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | 25QAM      | 25         | 0            | 19.83                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | 25QAM      | 25         | 12           | 19.77                       | 70.5                         | 70.5                         | 71.1                      | 21           | 2.4 |
| 10              | 25QAM      | 25         | 40           | 19.79                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| 10              | 25QAM      | 50         | 0            | 19.71                       | 70.5                         | 70.5                         | 71.1                      |              |     |
| Channel         |            |            |              |                             |                              |                              |                           |              |     |
| Frequency (MHz) |            |            |              | 701.5                       | 701.5                        | 713.5                        | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |     |
| 5               | QPSK       | 1          | 0            | 22.36                       | 22.34                        | 22.15                        |                           |              |     |
| 5               | QPSK       | 1          | 12           | 22.41                       | 22.48                        | 22.36                        | 23.4                      | 0            |     |
| 5               | QPSK       | 1          | 24           | 22.30                       | 22.45                        | 22.35                        |                           |              |     |
| 5               | QPSK       | 12         | 0            | 22.39                       | 22.39                        | 22.35                        |                           |              |     |
| 5               | QPSK       | 12         | 7            | 22.29                       | 22.39                        | 22.30                        | 23.4                      | 0            |     |
| 5               | QPSK       | 12         | 13           | 22.19                       | 22.33                        | 22.28                        |                           |              |     |
| 5               | QPSK       | 25         | 0            | 22.34                       | 22.13                        | 22.16                        |                           |              |     |
| 5               | HQAM       | 1          | 0            | 22.07                       | 22.28                        | 22.28                        |                           |              |     |
| 5               | HQAM       | 1          | 12           | 22.30                       | 22.30                        | 22.21                        | 23.4                      | 0            |     |
| 5               | HQAM       | 1          | 24           | 22.28                       | 22.24                        | 22.40                        |                           |              |     |
| 5               | HQAM       | 12         | 0            | 22.30                       | 22.30                        | 22.32                        |                           |              |     |
| 5               | HQAM       | 12         | 7            | 22.08                       | 22.13                        | 22.21                        | 23.4                      | 0            |     |
| 5               | HQAM       | 12         | 13           | 22.06                       | 22.10                        | 22.20                        |                           |              |     |
| 5               | HQAM       | 25         | 0            | 22.06                       | 22.10                        | 22.20                        |                           |              |     |
| 5               | HQAM       | 25         | 0            | 22.18                       | 22.34                        | 22.27                        | 23.4                      | 0            |     |
| 5               | HQAM       | 1          | 12           | 22.05                       | 22.31                        | 22.18                        |                           |              |     |
| 5               | HQAM       | 1          | 24           | 22.05                       | 22.24                        | 22.38                        | 23.4                      | 0            |     |
| 5               | HQAM       | 12         | 0            | 21.22                       | 21.00                        | 21.00                        |                           |              |     |
| 5               | HQAM       | 12         | 7            | 21.18                       | 21.16                        | 21.21                        | 23                        | 0.4          |     |
| 5               | HQAM       | 12         | 13           | 21.18                       | 21.18                        | 21.21                        |                           |              |     |
| 5               | HQAM       | 25         | 0            | 21.26                       | 21.00                        | 21.46                        |                           |              |     |
| 5               | 25QAM      | 1          | 0            | 19.42                       | 19.90                        | 19.37                        |                           |              |     |
| 5               | 25QAM      | 1          | 12           | 19.51                       | 19.90                        | 19.38                        | 21                        | 2.4          |     |
| 5               | 25QAM      | 1          | 24           | 19.40                       | 19.90                        | 19.38                        |                           |              |     |
| 5               | 25QAM      | 12         | 0            | 19.51                       | 19.80                        | 19.74                        |                           |              |     |
| 5               | 25QAM      | 12         | 7            | 19.51                       | 19.80                        | 19.80                        | 21                        | 2.4          |     |
| 5               | 25QAM      | 12         | 13           | 19.51                       | 19.80                        | 19.80                        |                           |              |     |
| 5               | 25QAM      | 25         | 0            | 19.42                       | 19.90                        | 19.37                        |                           |              |     |
| Channel         |            |            |              |                             |                              |                              |                           |              |     |
| Frequency (MHz) |            |            |              | 701.5                       | 701.5                        | 713.5                        | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |     |
| 5               | QPSK       | 1          | 0            | 22.31                       | 22.11                        | 22.18                        |                           |              |     |
| 5               | QPSK       | 1          | 12           | 22.37                       | 22.44                        | 22.36                        | 23.4                      | 0            |     |
| 5               | QPSK       | 1          | 14           | 22.28                       | 22.41                        | 22.35                        |                           |              |     |
| 5               | QPSK       | 1          | 26           | 22.10                       | 22.16                        | 22.22                        |                           |              |     |
| 5               | QPSK       | 12         | 0            | 22.32                       | 22.37                        | 22.37                        | 23.4                      | 0            |     |
| 5               | QPSK       | 12         | 7            | 22.12                       | 22.33                        | 22.30                        |                           |              |     |
| 5               | QPSK       | 15         | 0            | 22.13                       | 22.34                        | 22.32                        |                           |              |     |
| 5               | QPSK       | 15         | 1            | 22.18                       | 22.34                        | 22.32                        | 23.4                      | 0            |     |
| 5               | HQAM       | 1          | 0            | 22.29                       | 22.31                        | 22.28                        |                           |              |     |
| 5               | HQAM       | 1          | 14           | 22.19                       | 22.22                        | 22.40                        | 23.4                      | 0            |     |
| 5               | HQAM       | 1          | 26           | 22.12                       | 22.26                        | 22.31                        |                           |              |     |
| 5               | HQAM       | 12         | 0            | 22.32                       | 22.38                        | 22.31                        | 23.4                      | 0            |     |
| 5               | HQAM       | 15         | 0            | 22.01                       | 22.28                        | 22.28                        |                           |              |     |
| 5               | HQAM       | 1          | 7            | 22.09                       | 22.24                        | 22.20                        | 23.4                      | 0            |     |
| 5               | HQAM       | 15         | 0            | 22.03                       | 22.05                        | 22.28                        |                           |              |     |
| 5               | HQAM       | 1          | 0            | 21.01                       | 21.00                        | 21.04                        |                           |              |     |
| 5               | HQAM       | 1          | 6            | 21.90                       | 21.11                        | 22.00                        | 23.4                      | 0            |     |
| 5               | HQAM       | 1          | 14           | 21.95                       | 22.36                        | 22.17                        |                           |              |     |
| 5               | HQAM       | 1          | 26           | 21.86                       | 21.94                        | 22.08                        |                           |              |     |
| 5               | HQAM       | 6          | 0            | 21.26                       | 21.24                        | 21.27                        |                           |              |     |
| 5               | HQAM       | 6          | 7            | 21.29                       | 21.20                        | 21.20                        | 23.4                      | 0            |     |
| 5               | HQAM       | 6          | 7            | 21.26                       | 21.40                        | 21.42                        |                           |              |     |
| 5               | HQAM       | 6          | 15           | 21.07                       | 21.22                        | 21.29                        | 23                        | 0.4          |     |
| 5               | HQAM       | 6          | 17           | 21.06                       | 21.22                        | 21.29                        |                           |              |     |
| 5               | 25QAM      | 1          | 0            | 19.05                       | 19.08                        | 19.58                        | 21                        | 2.4          |     |
| 5               | 25QAM      | 1          | 14           | 19.75                       | 19.00                        | 19.77                        |                           |              |     |
| 5               | 25QAM      | 6          | 0            | 19.40                       | 19.00                        | 19.42                        |                           |              |     |
| 5               | 25QAM      | 6          | 7            | 19.57                       | 19.00                        | 19.42                        | 21                        | 2.4          |     |
| 5               | 25QAM      | 6          | 7            | 19.74                       | 19.80                        | 19.70                        |                           |              |     |
| 5               | 25QAM      | 15         | 0            | 19.43                       | 19.68                        | 19.68                        |                           |              |     |
| Channel         |            |            |              |                             |                              |                              |                           |              |     |
| Frequency (MHz) |            |            |              | 500.7                       | 501.5                        | 713.5                        | Turn-up<br>level<br>(dBm) | APRS<br>(dB) |     |
| 1.4             | QPSK       | 1          | 0            | 22.19                       | 22.29                        | 22.05                        |                           |              |     |
| 1.4             | QPSK       | 1          | 3            | 22.34                       | 22.46                        | 22.31                        | 23.4                      | 0            |     |
| 1.4             | QPSK       | 1          | 28           | 22.10                       | 22.29                        | 22.31                        |                           |              |     |
| 1.4             | QPSK       | 3          | 0            | 22.05                       | 22.10                        | 22.18                        |                           |              |     |
| 1.4             | QPSK       | 3          | 1            | 22.34                       | 22.43                        | 22.34                        | 23.4                      | 0            |     |
| 1.4             | QPSK       | 3          | 3            | 22.19                       | 22.26                        | 22.33                        |                           |              |     |
| 1.4             | QPSK       | 28         | 0            | 22.19                       | 22.24                        | 22.30                        | 23.4                      | 0            |     |
| 1.4             | HQAM       | 1          | 0            | 22.13                       | 22.30                        | 22.37                        |                           |              |     |
| 1.4             | HQAM       | 1          | 3            | 22.19                       | 22.30                        | 22.30                        |                           |              |     |
| 1.4             | HQAM       | 1          | 28           | 22.13                       | 22.29                        | 22.30                        | 23.4                      | 0            |     |
| 1.4             | HQAM       | 3          | 0            | 22.23                       | 22.30                        | 22.29                        |                           |              |     |
| 1.4             | HQAM       | 3          | 1            | 22.09                       | 22.29                        | 22.28                        | 23.4                      | 0            |     |
| 1.4             | HQAM       | 3          | 1            | 22.14                       | 22.22                        | 22.21                        |                           |              |     |
| 1.4             | HQAM       | 3          | 28           | 22.09                       | 22.29                        | 22.28                        | 23.4                      | 0            |     |
| 1.4             | HQAM       | 1          | 0            | 22.16                       | 22.29                        | 22.30                        |                           |              |     |
| 1.4             | HQAM       | 3          | 3            | 22.06                       | 22.31                        | 22.03                        | 23.4                      | 0            |     |
| 1.4             | HQAM       | 1          | 0            | 21.06                       | 21.22                        | 21.02                        |                           |              |     |
| 1.4             | HQAM       | 3          | 1            | 21.01                       | 21.43                        | 21.48                        | 23.4                      | 0            |     |
| 1.4             | HQAM       | 3          | 1            | 21.09                       | 21.88                        | 21.79                        |                           |              |     |
| 1.4             | HQAM       | 3          | 28           | 21.46                       | 21.88                        | 21.88                        |                           |              |     |
| 1.4             | HQAM       | 6          | 0            | 21.11                       | 21.22                        | 21.44                        | 23                        | 0.4          |     |
| 1.4             | HQAM       | 6          | 0            | 19.37                       | 19.80                        | 19.40                        |                           |              |     |
| 1.4             | 25QAM      | 1          | 0            | 19.88                       | 19.02                        | 19.94                        |                           |              |     |
| 1.4             | 25QAM      | 1          | 3            | 19.98                       | 19.86                        | 19.86                        | 21                        | 2.4          |     |
| 1.4             | 25QAM      | 1          | 28           | 19.98                       | 19.86                        | 19.86                        |                           |              |     |
| 1.4             | 25QAM      | 3          | 0            | 19.52                       | 19.78                        | 19.58                        |                           |              |     |
| 1.4             | 25QAM      | 3          | 1            | 19.80                       | 19.94                        | 19.81                        |                           |              |     |
| 1.4             | 25QAM      | 6          | 0            | 19.69                       | 19.75                        | 19.68                        |                           |              |     |
| 1.4             | 25QAM      | 6          | 3            | 19.44                       | 19.68                        | 19.68                        | 21                        | 2.4          |     |



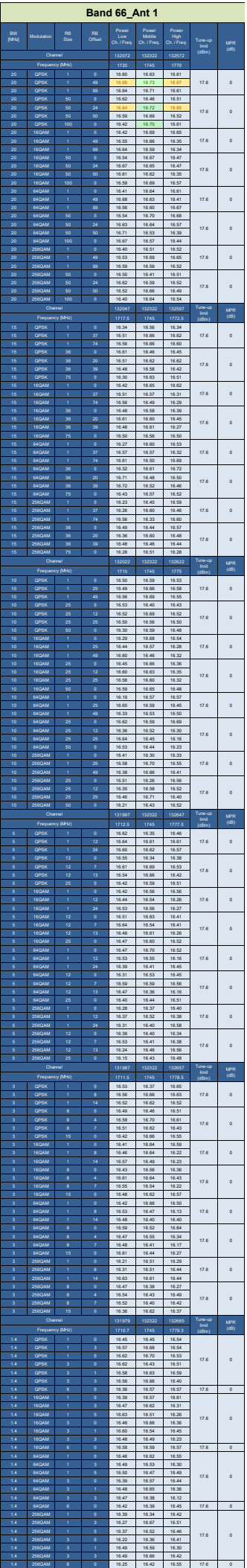
| Band 14_Ant 1   |            |         |           |                   |                                 |                                   |                |           |  |
|-----------------|------------|---------|-----------|-------------------|---------------------------------|-----------------------------------|----------------|-----------|--|
| RF [MHz]        | Modulation | RB Size | RF Offset | Power Level [dBm] | Power Spectral Density [dBm/Hz] | Power Spectral Density [dBm/5MHz] | Tune-off [MHz] | APRS (dB) |  |
| Channel 23330   |            |         |           |                   |                                 |                                   |                |           |  |
| Frequency [MHz] |            |         |           |                   |                                 |                                   |                |           |  |
| 793             |            |         |           |                   |                                 |                                   |                |           |  |
| 10              | QPSK       | 1       | 0         | 21.79             |                                 |                                   | 23.5           | 0         |  |
| 10              | QPSK       | 1       | 25        | 21.50             |                                 |                                   |                |           |  |
| 10              | QPSK       | 25      | 0         | 21.87             |                                 |                                   |                |           |  |
| 10              | QPSK       | 25      | 0         | 21.93             |                                 |                                   |                |           |  |
| 10              | QPSK       | 25      | 12        | 21.87             |                                 |                                   |                |           |  |
| 10              | QPSK       | 25      | 0         | 21.85             |                                 |                                   | 23.5           | 0         |  |
| 10              | QPSK       | 50      | 0         | 21.95             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 1       | 0         | 21.86             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 1       | 25        | 21.51             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 25      | 0         | 21.87             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 25      | 0         | 21.85             |                                 |                                   | 23.5           | 0         |  |
| 10              | 16QAM      | 25      | 12        | 21.86             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 25      | 25        | 21.50             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 50      | 0         | 21.90             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 1       | 0         | 21.85             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 1       | 25        | 21.56             |                                 |                                   | 23.5           | 0         |  |
| 10              | 16QAM      | 25      | 0         | 21.86             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 25      | 0         | 21.94             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 25      | 12        | 21.93             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 25      | 25        | 21.55             |                                 |                                   |                |           |  |
| 10              | 16QAM      | 25      | 0         | 21.90             |                                 |                                   | 23             | 0.5       |  |
| 10              | 16QAM      | 50      | 0         | 21.27             |                                 |                                   |                |           |  |
| 10              | 256QAM     | 1       | 0         | 19.81             |                                 |                                   |                |           |  |
| 10              | 256QAM     | 1       | 25        | 19.80             |                                 |                                   |                |           |  |
| 10              | 256QAM     | 25      | 0         | 21.86             |                                 |                                   |                |           |  |
| 10              | 256QAM     | 25      | 0         | 21.83             |                                 |                                   | 21             | 2.5       |  |
| 10              | 256QAM     | 25      | 12        | 19.84             |                                 |                                   |                |           |  |
| 10              | 256QAM     | 25      | 25        | 19.74             |                                 |                                   |                |           |  |
| 10              | 256QAM     | 50      | 0         | 21.86             |                                 |                                   |                |           |  |
| 10              | 256QAM     | 1       | 0         | 21.86             |                                 |                                   |                |           |  |
| Channel 23305   |            |         |           |                   |                                 |                                   |                |           |  |
| Frequency [MHz] |            |         |           |                   |                                 |                                   |                |           |  |
| 793.5           |            |         |           |                   |                                 |                                   |                |           |  |
| 5               | QPSK       | 1       | 0         | 21.81             | 20.88                           | 21.51                             | 23.5           | 0         |  |
| 5               | QPSK       | 1       | 25        | 21.63             | 21.03                           | 21.63                             |                |           |  |
| 5               | QPSK       | 1       | 24        | 21.74             | 21.81                           | 21.82                             |                |           |  |
| 5               | QPSK       | 12      | 0         | 21.91             | 21.86                           | 21.90                             |                |           |  |
| 5               | QPSK       | 12      | 7         | 21.58             | 21.88                           | 21.94                             |                |           |  |
| 5               | QPSK       | 12      | 7         | 21.58             | 21.83                           | 21.95                             | 23.5           | 0         |  |
| 5               | QPSK       | 25      | 0         | 21.87             | 21.93                           | 21.86                             |                |           |  |
| 5               | 16QAM      | 1       | 0         | 21.78             | 21.79                           | 21.78                             |                |           |  |
| 5               | 16QAM      | 1       | 25        | 21.50             | 21.85                           | 21.81                             |                |           |  |
| 5               | 16QAM      | 1       | 24        | 21.75             | 21.79                           | 21.85                             |                |           |  |
| 5               | 16QAM      | 12      | 0         | 21.75             | 21.78                           | 21.74                             | 23.5           | 0         |  |
| 5               | 16QAM      | 12      | 7         | 21.58             | 21.88                           | 21.91                             |                |           |  |
| 5               | 16QAM      | 12      | 7         | 21.58             | 21.83                           | 21.79                             |                |           |  |
| 5               | 16QAM      | 25      | 0         | 21.85             | 21.81                           | 21.86                             |                |           |  |
| 5               | 16QAM      | 1       | 0         | 21.62             | 21.57                           | 21.77                             |                |           |  |
| 5               | 16QAM      | 1       | 25        | 21.50             | 21.85                           | 21.81                             | 23.5           | 0         |  |
| 5               | 16QAM      | 1       | 24        | 21.84             | 21.74                           | 21.80                             |                |           |  |
| 5               | 16QAM      | 12      | 0         | 21.23             | 21.27                           | 21.26                             |                |           |  |
| 5               | 16QAM      | 12      | 7         | 21.20             | 21.41                           | 21.08                             |                |           |  |
| 5               | 16QAM      | 12      | 7         | 21.13             | 21.10                           | 21.08                             |                |           |  |
| 5               | 16QAM      | 25      | 0         | 21.16             | 21.18                           | 21.09                             | 23             | 0.5       |  |
| 5               | 256QAM     | 1       | 0         | 19.54             | 19.68                           | 19.57                             |                |           |  |
| 5               | 256QAM     | 1       | 25        | 19.66             | 19.79                           | 19.61                             |                |           |  |
| 5               | 256QAM     | 1       | 24        | 19.73             | 19.57                           | 19.54                             |                |           |  |
| 5               | 256QAM     | 12      | 0         | 19.47             | 19.53                           | 19.64                             |                |           |  |
| 5               | 256QAM     | 12      | 7         | 19.71             | 19.64                           | 19.73                             | 21             | 2.5       |  |
| 5               | 256QAM     | 12      | 7         | 19.56             | 19.61                           | 19.61                             |                |           |  |
| 5               | 256QAM     | 25      | 0         | 19.48             | 19.51                           | 19.48                             |                |           |  |

| Band 17_Ant 0   |            |         |           |                   |                   |                   |                   |                |            |    |
|-----------------|------------|---------|-----------|-------------------|-------------------|-------------------|-------------------|----------------|------------|----|
| RF [MHz]        | Modulation | RB Size | RF Offset | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Turn-on (uSec) | APRS (dBm) |    |
|                 |            |         |           | 23780             | 23790             | 23800             |                   |                |            |    |
| Channel         |            |         |           | 700               | 710               | 711               |                   |                |            |    |
| 10              | QPSK       | 1       | 0         | 22.83             | 22.94             | 22.86             |                   |                |            |    |
| 10              | QPSK       | 1       | 25        | 22.87             | 23.21             | 22.86             |                   |                |            |    |
| 10              | QPSK       | 1       | 50        | 22.93             | 23.09             | 22.97             |                   | 24             | 0          |    |
| 10              | QPSK       | 25      | 0         | 22.79             | 22.80             | 22.86             |                   |                |            |    |
| 10              | QPSK       | 25      | 12        | 23.07             | 23.19             | 23.11             |                   |                |            |    |
| 10              | QPSK       | 25      | 24        | 23.07             | 23.19             | 23.11             |                   |                |            | 24 |
| 10              | QPSK       | 50      | 0         | 23.05             | 22.16             | 22.93             |                   |                |            |    |
| 10              | 16QAM      | 1       | 0         | 23.05             | 22.99             | 23.01             |                   |                |            |    |
| 10              | 16QAM      | 1       | 25        | 22.87             | 23.15             | 22.87             |                   |                |            | 24 |
| 10              | 16QAM      | 1       | 50        | 22.93             | 23.09             | 22.97             |                   |                |            |    |
| 10              | 16QAM      | 25      | 0         | 23.12             | 23.16             | 23.16             |                   |                |            |    |
| 10              | 16QAM      | 25      | 12        | 23.00             | 23.14             | 23.12             |                   |                |            |    |
| 10              | 16QAM      | 25      | 24        | 23.00             | 23.14             | 23.12             |                   |                |            | 24 |
| 10              | 16QAM      | 50      | 0         | 22.93             | 22.15             | 22.93             |                   |                |            |    |
| 10              | 16QAM      | 1       | 0         | 22.80             | 22.82             | 22.82             |                   |                |            |    |
| 10              | 16QAM      | 1       | 25        | 22.84             | 23.02             | 22.90             |                   |                |            |    |
| 10              | 16QAM      | 1       | 50        | 22.97             | 23.04             | 22.97             |                   |                |            |    |
| 10              | 16QAM      | 25      | 0         | 21.46             | 21.53             | 21.44             |                   |                |            |    |
| 10              | 16QAM      | 25      | 12        | 21.56             | 21.60             | 21.44             |                   |                |            |    |
| 10              | 16QAM      | 25      | 24        | 21.46             | 21.53             | 21.44             |                   |                |            | 23 |
| 10              | 16QAM      | 50      | 0         | 21.35             | 21.47             | 21.40             |                   |                |            |    |
| 10              | 256QAM     | 1       | 0         | 20.07             | 19.89             | 20.06             |                   |                |            |    |
| 10              | 256QAM     | 1       | 25        | 20.04             | 20.19             | 20.19             |                   |                |            | 21 |
| 10              | 256QAM     | 1       | 50        | 20.07             | 20.19             | 20.19             |                   |                |            |    |
| 10              | 256QAM     | 25      | 0         | 19.38             | 20.00             | 20.00             |                   |                |            |    |
| 10              | 256QAM     | 25      | 12        | 19.34             | 19.97             | 19.85             |                   |                |            |    |
| 10              | 256QAM     | 25      | 24        | 19.35             | 19.98             | 19.85             |                   |                |            |    |
| 10              | 256QAM     | 50      | 0         | 19.35             | 19.79             | 19.71             |                   |                |            |    |
| Channel         |            |         |           | 23785             | 23790             | 23805             | Turn-on (uSec)    | APRS (dBm)     |            |    |
| Frequency [MHz] |            |         |           | 706.5             | 710               | 713.5             |                   |                |            |    |
| 5               | QPSK       | 1       | 0         | 22.85             | 22.88             | 22.81             |                   |                |            |    |
| 5               | QPSK       | 1       | 25        | 23.14             | 23.14             | 22.88             |                   |                |            |    |
| 5               | QPSK       | 1       | 24        | 22.94             | 23.13             | 22.83             |                   |                |            |    |
| 5               | QPSK       | 12      | 0         | 22.79             | 22.83             | 22.83             |                   |                |            |    |
| 5               | QPSK       | 12      | 7         | 22.79             | 23.10             | 22.84             |                   |                |            | 24 |
| 5               | QPSK       | 12      | 14        | 22.79             | 22.84             | 22.84             |                   |                |            |    |
| 5               | QPSK       | 25      | 0         | 22.87             | 23.05             | 22.96             |                   |                |            |    |
| 5               | 16QAM      | 1       | 0         | 22.96             | 23.00             | 23.00             |                   |                |            |    |
| 5               | 16QAM      | 1       | 25        | 22.94             | 23.24             | 22.94             |                   |                |            |    |
| 5               | 16QAM      | 1       | 24        | 22.78             | 22.88             | 22.88             |                   |                |            |    |
| 5               | 16QAM      | 12      | 0         | 23.12             | 23.03             | 22.86             |                   |                |            |    |
| 5               | 16QAM      | 12      | 7         | 23.05             | 23.03             | 22.94             |                   |                |            |    |
| 5               | 16QAM      | 12      | 14        | 23.00             | 23.00             | 22.90             |                   |                |            |    |
| 5               | 16QAM      | 25      | 0         | 22.87             | 22.88             | 23.01             |                   |                |            | 24 |
| 5               | 16QAM      | 1       | 0         | 22.53             | 22.83             | 22.82             |                   |                |            |    |
| 5               | 16QAM      | 1       | 25        | 22.83             | 23.00             | 22.83             |                   |                |            |    |
| 5               | 16QAM      | 1       | 24        | 22.65             | 22.75             | 22.60             |                   |                |            |    |
| 5               | 16QAM      | 12      | 0         | 21.19             | 21.40             | 21.20             |                   |                |            |    |
| 5               | 16QAM      | 12      | 7         | 21.53             | 21.48             | 21.20             |                   |                |            | 23 |
| 5               | 16QAM      | 12      | 14        | 21.50             | 21.48             | 21.40             |                   |                |            |    |
| 5               | 16QAM      | 25      | 0         | 21.23             | 21.33             | 21.27             |                   |                |            |    |
| 5               | 256QAM     | 1       | 0         | 19.81             | 19.88             | 20.08             |                   |                |            |    |
| 5               | 256QAM     | 1       | 25        | 19.73             | 19.90             | 19.90             |                   |                |            | 21 |
| 5               | 256QAM     | 1       | 24        | 19.50             | 19.60             | 19.50             |                   |                |            |    |
| 5               | 256QAM     | 12      | 0         | 19.98             | 19.87             | 19.84             |                   |                |            |    |
| 5               | 256QAM     | 12      | 7         | 19.90             | 19.92             | 19.83             |                   |                |            |    |
| 5               | 256QAM     | 12      | 14        | 19.96             | 19.93             | 19.83             |                   |                |            | 21 |
| 5               | 256QAM     | 25      | 0         | 19.71             | 19.78             | 19.71             |                   |                |            |    |

| Band 17_Ant 1   |            |         |           |                   |                   |                   |                   |                   |           |
|-----------------|------------|---------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------|
| RF [MHz]        | Modulation | RB Size | RF Offset | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Turn-on time [μs] | MPER [dB] |
| Channel         |            |         |           | 23780             | 23790             | 23800             |                   |                   |           |
| Frequency [MHz] |            |         |           | 709               | 710               | 711               |                   |                   |           |
| 10              | QPSK       | 1       | 0         | 22.18             | 22.17             | 22.13             |                   |                   |           |
| 10              | QPSK       | 1       | 25        | 22.22             | 22.23             | 22.21             |                   | 23.4              | 0         |
| 10              | QPSK       | 1       | 50        | 22.24             | 22.25             | 22.21             |                   |                   |           |
| 10              | QPSK       | 25      | 0         | 22.21             | 22.26             | 22.16             |                   |                   |           |
| 10              | QPSK       | 25      | 12        | 22.19             | 22.25             | 22.11             |                   | 23.4              | 0         |
| 10              | QPSK       | 25      | 24        | 22.19             | 22.24             | 22.11             |                   |                   |           |
| 10              | QPSK       | 50      | 0         | 22.23             | 22.24             | 22.18             |                   |                   |           |
| 10              | 16QAM      | 1       | 0         | 22.14             | 22.09             | 22.09             |                   |                   |           |
| 10              | 16QAM      | 1       | 25        | 22.22             | 22.16             | 22.01             |                   | 23.4              | 0         |
| 10              | 16QAM      | 1       | 50        | 22.24             | 22.13             | 22.06             |                   |                   |           |
| 10              | 16QAM      | 25      | 0         | 22.13             | 22.27             | 22.28             |                   |                   |           |
| 10              | 16QAM      | 25      | 12        | 22.11             | 22.22             | 22.18             |                   | 23.4              | 0         |
| 10              | 16QAM      | 25      | 24        | 22.11             | 22.22             | 22.18             |                   |                   |           |
| 10              | 16QAM      | 50      | 0         | 22.16             | 22.25             | 22.23             |                   |                   |           |
| 10              | 64QAM      | 1       | 0         | 22.10             | 22.21             | 22.17             |                   |                   |           |
| 10              | 64QAM      | 1       | 25        | 22.16             | 22.16             | 21.80             |                   | 23.4              | 0         |
| 10              | 64QAM      | 1       | 50        | 22.09             | 22.09             | 21.80             |                   |                   |           |
| 10              | 64QAM      | 25      | 0         | 21.20             | 21.21             | 21.21             |                   |                   |           |
| 10              | 64QAM      | 25      | 12        | 21.24             | 21.35             | 21.29             |                   | 23                | 0.4       |
| 10              | 64QAM      | 25      | 24        | 21.24             | 21.35             | 21.29             |                   |                   |           |
| 10              | 64QAM      | 50      | 0         | 21.27             | 21.22             | 21.22             |                   |                   |           |
| 10              | 256QAM     | 1       | 0         | 19.91             | 19.89             | 19.91             |                   |                   |           |
| 10              | 256QAM     | 1       | 25        | 20.07             | 20.00             | 19.88             |                   | 21                | 2.4       |
| 10              | 256QAM     | 1       | 50        | 20.07             | 20.00             | 19.88             |                   |                   |           |
| 10              | 256QAM     | 25      | 0         | 19.87             | 19.91             | 19.75             |                   |                   |           |
| 10              | 256QAM     | 25      | 12        | 19.84             | 19.82             | 19.72             |                   | 21                | 2.4       |
| 10              | 256QAM     | 25      | 24        | 19.88             | 19.86             | 19.56             |                   |                   |           |
| 10              | 256QAM     | 50      | 0         | 19.77             | 19.79             | 19.69             |                   |                   |           |
| Channel         |            |         |           | 23795             | 23805             | 23815             | Turn-on time [μs] | MPER [dB]         |           |
| Frequency [MHz] |            |         |           | 706.6             | 710               | 713.5             |                   |                   |           |
| 5               | QPSK       | 1       | 0         | 22.17             | 22.20             | 22.09             |                   |                   |           |
| 5               | QPSK       | 1       | 25        | 22.26             | 22.27             | 22.20             |                   | 23.4              | 0         |
| 5               | QPSK       | 1       | 50        | 22.28             | 22.25             | 22.15             |                   |                   |           |
| 5               | QPSK       | 25      | 0         | 22.19             | 22.26             | 22.15             |                   | 23.4              | 0         |
| 5               | QPSK       | 25      | 12        | 22.16             | 22.21             | 22.12             |                   |                   |           |
| 5               | QPSK       | 25      | 24        | 22.16             | 22.21             | 22.12             |                   |                   |           |
| 5               | QPSK       | 50      | 0         | 22.24             | 22.25             | 22.19             |                   | 23.4              | 0         |
| 5               | 16QAM      | 1       | 0         | 22.07             | 22.13             | 22.05             |                   |                   |           |
| 5               | 16QAM      | 1       | 25        | 22.03             | 22.15             | 22.18             |                   | 23.4              | 0         |
| 5               | 16QAM      | 1       | 50        | 22.07             | 22.12             | 22.11             |                   |                   |           |
| 5               | 16QAM      | 25      | 0         | 22.05             | 22.05             | 22.07             |                   |                   |           |
| 5               | 16QAM      | 25      | 12        | 22.03             | 22.18             | 22.18             |                   | 23.4              | 0         |
| 5               | 16QAM      | 25      | 24        | 22.07             | 22.08             | 22.18             |                   |                   |           |
| 5               | 16QAM      | 50      | 0         | 22.17             | 22.08             | 21.95             |                   |                   |           |
| 5               | 64QAM      | 1       | 0         | 22.03             | 22.15             | 22.15             |                   | 23.4              | 0         |
| 5               | 64QAM      | 1       | 25        | 22.07             | 22.07             | 21.97             |                   |                   |           |
| 5               | 64QAM      | 1       | 50        | 22.07             | 22.12             | 22.11             |                   |                   |           |
| 5               | 64QAM      | 25      | 0         | 21.24             | 21.28             | 21.11             |                   |                   |           |
| 5               | 64QAM      | 25      | 12        | 21.13             | 21.13             | 21.17             |                   | 23                | 0.4       |
| 5               | 64QAM      | 25      | 24        | 21.13             | 21.13             | 21.17             |                   |                   |           |
| 5               | 64QAM      | 50      | 0         | 21.12             | 21.12             | 21.11             |                   |                   |           |
| 5               | 256QAM     | 1       | 0         | 19.79             | 19.85             | 19.81             |                   |                   |           |
| 5               | 256QAM     | 1       | 25        | 19.96             | 19.84             | 19.74             |                   | 21                | 2.4       |
| 5               | 256QAM     | 1       | 50        | 19.96             | 19.86             | 19.95             |                   |                   |           |
| 5               | 256QAM     | 25      | 0         | 19.84             | 19.92             | 19.48             |                   |                   |           |
| 5               | 256QAM     | 25      | 12        | 19.72             | 19.72             | 19.77             |                   | 21                | 2.4       |
| 5               | 256QAM     | 25      | 24        | 19.81             | 19.81             | 19.68             |                   |                   |           |
| 5               | 256QAM     | 50      | 0         | 19.50             | 19.68             | 19.74             |                   |                   |           |



| Band 25_Ant_1   |         |         |                     |                      |                      |               |                |           |  |  |  |
|-----------------|---------|---------|---------------------|----------------------|----------------------|---------------|----------------|-----------|--|--|--|
| RF Modulation   | RF Rate | RF QPSK | Power Low Ch./Freq. | Power High Ch./Freq. | Power High Ch./Freq. | Turn-on (sec) | Turn-off (sec) | APRS (dB) |  |  |  |
| Channel         |         |         |                     |                      |                      |               |                |           |  |  |  |
| Frequency (MHz) |         |         |                     |                      |                      |               |                |           |  |  |  |
| 20              | OPSR    | 1       | 0                   | 15.42                | 15.48                | 15.29         |                |           |  |  |  |
| 20              | OPSR    | 1       | 49                  | 15.42                | 15.38                | 15.37         | 18.6           | 0         |  |  |  |
| 20              | OPSR    | 1       | 50                  | 15.38                | 15.42                | 15.41         |                |           |  |  |  |
| 20              | OPSR    | 50      | 0                   | 15.38                | 15.45                | 15.42         |                |           |  |  |  |
| 20              | OPSR    | 50      | 24                  | 15.42                | 15.38                | 15.45         | 18.6           | 0         |  |  |  |
| 20              | OPSR    | 50      | 50                  | 15.42                | 15.48                | 15.38         |                |           |  |  |  |
| 20              | OPSR    | 100     | 0                   | 15.43                | 15.39                | 15.41         |                |           |  |  |  |
| 20              | HQAM    | 1       | 0                   | 15.45                | 15.37                | 15.38         |                |           |  |  |  |
| 20              | HQAM    | 1       | 49                  | 15.44                | 15.21                | 15.41         | 18.6           | 0         |  |  |  |
| 20              | HQAM    | 1       | 50                  | 15.39                | 15.39                | 15.44         |                |           |  |  |  |
| 20              | HQAM    | 50      | 0                   | 15.44                | 15.32                | 15.41         |                |           |  |  |  |
| 20              | HQAM    | 50      | 24                  | 15.44                | 15.44                | 15.33         | 18.6           | 0         |  |  |  |
| 20              | HQAM    | 50      | 50                  | 15.41                | 15.48                | 15.41         |                |           |  |  |  |
| 20              | HQAM    | 100     | 0                   | 15.48                | 15.45                | 15.31         |                |           |  |  |  |
| 20              | HQAM    | 1       | 0                   | 15.48                | 15.33                | 15.47         |                |           |  |  |  |
| 20              | HQAM    | 1       | 49                  | 15.34                | 15.42                | 15.39         | 18.6           | 0         |  |  |  |
| 20              | HQAM    | 1       | 50                  | 15.39                | 15.39                | 15.25         |                |           |  |  |  |
| 20              | HQAM    | 50      | 0                   | 15.44                | 15.43                | 15.48         |                |           |  |  |  |
| 20              | HQAM    | 50      | 24                  | 15.55                | 15.55                | 15.48         | 18.6           | 0         |  |  |  |
| 20              | HQAM    | 50      | 50                  | 15.38                | 15.39                | 15.38         |                |           |  |  |  |
| 20              | HQAM    | 100     | 0                   | 15.32                | 15.48                | 15.37         |                |           |  |  |  |
| 20              | ZSOGAM  | 1       | 0                   | 15.38                | 15.52                | 15.38         | 18.6           | 0         |  |  |  |
| 20              | ZSOGAM  | 1       | 49                  | 15.38                | 15.44                | 15.44         |                |           |  |  |  |
| 20              | ZSOGAM  | 1       | 50                  | 15.41                | 15.47                | 15.35         |                |           |  |  |  |
| 20              | ZSOGAM  | 100     | 0                   | 15.41                | 15.48                | 15.34         |                |           |  |  |  |
| Channel         |         |         |                     |                      |                      |               |                |           |  |  |  |
| Frequency (MHz) |         |         |                     |                      |                      |               |                |           |  |  |  |
| 15              | OPSR    | 1       | 0                   | 15.05                | 15.40                | 15.05         |                |           |  |  |  |
| 15              | OPSR    | 1       | 37                  | 15.23                | 15.34                | 15.33         | 18.6           | 0         |  |  |  |
| 15              | OPSR    | 1       | 74                  | 15.25                | 15.25                | 15.03         |                |           |  |  |  |
| 15              | OPSR    | 1       | 0                   | 15.13                | 15.28                | 15.28         |                |           |  |  |  |
| 15              | OPSR    | 38      | 20                  | 15.22                | 15.41                | 15.23         | 18.6           | 0         |  |  |  |
| 15              | OPSR    | 38      | 59                  | 15.27                | 15.28                | 15.28         |                |           |  |  |  |
| 15              | OPSR    | 1       | 0                   | 15.27                | 15.28                | 15.28         |                |           |  |  |  |
| 15              | HQAM    | 1       | 0                   | 15.22                | 15.21                | 15.28         |                |           |  |  |  |
| 15              | HQAM    | 1       | 37                  | 15.22                | 15.21                | 15.31         | 18.6           | 0         |  |  |  |
| 15              | HQAM    | 1       | 74                  | 15.32                | 15.41                | 15.27         |                |           |  |  |  |
| 15              | HQAM    | 38      | 5                   | 15.22                | 15.34                | 15.33         |                |           |  |  |  |
| 15              | HQAM    | 38      | 20                  | 15.22                | 15.39                | 15.13         | 18.6           | 0         |  |  |  |
| 15              | HQAM    | 38      | 59                  | 15.18                | 15.30                | 15.29         |                |           |  |  |  |
| 15              | HQAM    | 1       | 0                   | 15.30                | 15.32                | 15.32         |                |           |  |  |  |
| 15              | HQAM    | 1       | 37                  | 15.21                | 15.12                | 15.16         | 18.6           | 0         |  |  |  |
| 15              | HQAM    | 1       | 74                  | 15.32                | 15.41                | 15.28         |                |           |  |  |  |
| 15              | HQAM    | 38      | 0                   | 15.38                | 15.36                | 15.32         |                |           |  |  |  |
| 15              | HQAM    | 38      | 20                  | 15.38                | 15.27                | 15.38         | 18.6           | 0         |  |  |  |
| 15              | HQAM    | 38      | 59                  | 15.27                | 15.46                | 15.27         |                |           |  |  |  |
| 15              | HQAM    | 1       | 0                   | 15.39                | 15.39                | 15.31         |                |           |  |  |  |
| 15              | ZSOGAM  | 1       | 0                   | 14.99                | 15.18                | 14.98         |                |           |  |  |  |
| 15              | ZSOGAM  | 1       | 37                  | 15.11                | 15.21                | 15.25         | 18.6           | 0         |  |  |  |
| 15              | ZSOGAM  | 1       | 74                  | 15.28                | 15.32                | 15.28         |                |           |  |  |  |
| 15              | ZSOGAM  | 1       | 0                   | 15.18                | 15.24                | 15.25         |                |           |  |  |  |
| 15              | ZSOGAM  | 38      | 0                   | 15.18                | 15.24                | 15.25         |                |           |  |  |  |
| 15              | ZSOGAM  | 38      | 20                  | 15.18                | 15.29                | 15.28         | 18.6           | 0         |  |  |  |
| 15              | ZSOGAM  | 38      | 59                  | 15.27                | 15.46                | 15.28         |                |           |  |  |  |
| 15              | ZSOGAM  | 1       | 0                   | 15.33                | 15.13                | 15.20         |                |           |  |  |  |
| 15              | ZSOGAM  | 75      | 0                   | 15.33                | 15.13                | 15.20         |                |           |  |  |  |
| Channel         |         |         |                     |                      |                      |               |                |           |  |  |  |
| Frequency (MHz) |         |         |                     |                      |                      |               |                |           |  |  |  |
| 10              | OPSR    | 1       | 0                   | 15.05                | 15.40                | 15.05         |                |           |  |  |  |
| 10              | OPSR    | 1       | 25                  | 15.18                | 15.35                | 15.27         | 18.6           | 0         |  |  |  |
| 10              | OPSR    | 1       | 49                  | 15.21                | 15.25                | 15.05         |                |           |  |  |  |
| 10              | OPSR    | 25      | 0                   | 15.20                | 15.29                | 15.29         |                |           |  |  |  |
| 10              | OPSR    | 25      | 12                  | 15.28                | 15.36                | 15.22         | 18.6           | 0         |  |  |  |
| 10              | OPSR    | 25      | 25                  | 15.27                | 15.34                | 15.28         |                |           |  |  |  |
| 10              | OPSR    | 50      | 0                   | 15.31                | 15.42                | 15.28         |                |           |  |  |  |
| 10              | HQAM    | 1       | 0                   | 15.27                | 15.25                | 15.25         | 18.6           | 0         |  |  |  |
| 10              | HQAM    | 1       | 25                  | 15.33                | 15.08                | 15.28         |                |           |  |  |  |
| 10              | HQAM    | 1       | 49                  | 15.32                | 15.40                | 15.23         |                |           |  |  |  |
| 10              | HQAM    | 25      | 0                   | 15.28                | 15.36                | 15.28         |                |           |  |  |  |
| 10              | HQAM    | 25      | 12                  | 15.24                | 15.29                | 15.19         | 18.6           | 0         |  |  |  |
| 10              | HQAM    | 25      | 25                  | 15.19                | 15.29                | 15.23         |                |           |  |  |  |
| 10              | HQAM    | 50      | 0                   | 15.25                | 15.35                | 15.17         |                |           |  |  |  |
| 10              | HQAM    | 50      | 12                  | 15.35                | 15.42                | 15.31         | 18.6           | 0         |  |  |  |
| 10              | HQAM    | 1       | 0                   | 15.08                | 15.29                | 15.22         | 18.6           | 0         |  |  |  |
| 10              | HQAM    | 1       | 49                  | 15.03                | 14.91                | 14.89         |                |           |  |  |  |
| 10              | HQAM    | 25      | 0                   | 15.08                | 15.31                | 15.22         |                |           |  |  |  |
| 10              | HQAM    | 25      | 12                  | 15.14                | 15.32                | 15.25         | 18.6           | 0         |  |  |  |
| 10              | HQAM    | 25      | 25                  | 15.31                | 15.29                | 15.33         |                |           |  |  |  |
| 10              | HQAM    | 50      | 0                   | 15.30                | 15.46                | 14.87         |                |           |  |  |  |
| 10              | ZSOGAM  | 1       | 0                   | 15.00                | 15.46                | 14.87         |                |           |  |  |  |
| 10              | ZSOGAM  | 1       | 25                  | 15.18                | 15.27                | 15.18         |                |           |  |  |  |
| 10              | ZSOGAM  | 1       | 49                  | 15.11                | 15.02                | 15.02         | 18.6           | 0         |  |  |  |
| 10              | ZSOGAM  | 25      | 0                   | 15.25                | 15.15                | 15.26         |                |           |  |  |  |
| 10              | ZSOGAM  | 25      | 12                  | 15.33                | 15.28                | 15.18         | 18.6           | 0         |  |  |  |
| 10              | ZSOGAM  | 25      | 25                  | 15.35                | 15.25                | 15.38         |                |           |  |  |  |
| 10              | ZSOGAM  | 50      | 0                   | 15.29                | 15.27                | 15.31         |                |           |  |  |  |
| Channel         |         |         |                     |                      |                      |               |                |           |  |  |  |
| Frequency (MHz) |         |         |                     |                      |                      |               |                |           |  |  |  |
| 5               | OPSR    | 1       | 0                   | 15.02                | 15.00                | 15.21.5       |                |           |  |  |  |
| 5               | OPSR    | 1       | 0                   | 15.15                | 15.21                | 15.17         | 18.6           | 0         |  |  |  |
| 5               | OPSR    | 1       | 12                  | 15.28                | 15.45                | 15.32         |                |           |  |  |  |
| 5               | OPSR    | 1       | 24                  | 15.14                | 15.39                | 15.32         |                |           |  |  |  |
| 5               | OPSR    | 12      | 0                   | 15.21                | 15.28                | 15.32         |                |           |  |  |  |
| 5               | OPSR    | 12      | 12                  | 15.28                | 15.34                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | OPSR    | 12      | 13                  | 15.29                | 15.38                | 15.18         |                |           |  |  |  |
| 5               | OPSR    | 25      | 0                   | 15.20                | 15.37                | 15.28         |                |           |  |  |  |
| 5               | HQAM    | 1       | 0                   | 15.34                | 15.27                | 15.28         |                |           |  |  |  |
| 5               | HQAM    | 1       | 12                  | 15.34                | 15.13                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 24                  | 15.48                | 15.40                | 15.29         |                |           |  |  |  |
| 5               | HQAM    | 12      | 0                   | 15.33                | 15.21                | 15.29         |                |           |  |  |  |
| 5               | HQAM    | 12      | 12                  | 15.33                | 15.31                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 12      | 13                  | 15.18                | 15.38                | 15.28         |                |           |  |  |  |
| 5               | HQAM    | 25      | 0                   | 15.32                | 15.27                | 15.19         |                |           |  |  |  |
| 5               | HQAM    | 25      | 12                  | 15.34                | 15.25                | 15.18         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 0                   | 15.10                | 15.34                | 15.24         |                |           |  |  |  |
| 5               | HQAM    | 1       | 24                  | 14.94                | 15.01                | 15.14         |                |           |  |  |  |
| 5               | HQAM    | 12      | 0                   | 15.24                | 15.24                | 15.24         |                |           |  |  |  |
| 5               | HQAM    | 12      | 7                   | 15.37                | 15.42                | 15.16         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 12      | 13                  | 15.25                | 15.32                | 15.05         |                |           |  |  |  |
| 5               | HQAM    | 25      | 0                   | 15.21                | 15.29                | 15.31         |                |           |  |  |  |
| 5               | HQAM    | 25      | 12                  | 15.30                | 15.17                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 0                   | 15.21                | 15.41                | 15.35         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 12                  | 15.31                | 15.31                | 15.26         |                |           |  |  |  |
| 5               | HQAM    | 1       | 24                  | 15.31                | 15.29                | 15.28         |                |           |  |  |  |
| 5               | HQAM    | 12      | 0                   | 15.30                | 15.30                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 12      | 7                   | 15.37                | 15.42                | 15.16         |                |           |  |  |  |
| 5               | HQAM    | 12      | 13                  | 15.25                | 15.32                | 15.05         |                |           |  |  |  |
| 5               | HQAM    | 25      | 0                   | 15.21                | 15.29                | 15.31         |                |           |  |  |  |
| 5               | HQAM    | 25      | 12                  | 15.30                | 15.17                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 0                   | 15.21                | 15.41                | 15.35         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 12                  | 15.31                | 15.31                | 15.26         |                |           |  |  |  |
| 5               | HQAM    | 1       | 24                  | 15.31                | 15.29                | 15.28         |                |           |  |  |  |
| 5               | HQAM    | 12      | 0                   | 15.30                | 15.30                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 12      | 7                   | 15.37                | 15.42                | 15.16         |                |           |  |  |  |
| 5               | HQAM    | 12      | 13                  | 15.25                | 15.32                | 15.05         |                |           |  |  |  |
| 5               | HQAM    | 25      | 0                   | 15.21                | 15.29                | 15.31         |                |           |  |  |  |
| 5               | HQAM    | 25      | 12                  | 15.30                | 15.17                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 0                   | 15.21                | 15.41                | 15.35         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 12                  | 15.31                | 15.31                | 15.26         |                |           |  |  |  |
| 5               | HQAM    | 1       | 24                  | 15.31                | 15.29                | 15.28         |                |           |  |  |  |
| 5               | HQAM    | 12      | 0                   | 15.30                | 15.30                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 12      | 7                   | 15.37                | 15.42                | 15.16         |                |           |  |  |  |
| 5               | HQAM    | 12      | 13                  | 15.25                | 15.32                | 15.05         |                |           |  |  |  |
| 5               | HQAM    | 25      | 0                   | 15.21                | 15.29                | 15.31         |                |           |  |  |  |
| 5               | HQAM    | 25      | 12                  | 15.30                | 15.17                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 0                   | 15.21                | 15.41                | 15.35         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 12                  | 15.31                | 15.31                | 15.26         |                |           |  |  |  |
| 5               | HQAM    | 1       | 24                  | 15.31                | 15.29                | 15.28         |                |           |  |  |  |
| 5               | HQAM    | 12      | 0                   | 15.30                | 15.30                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 12      | 7                   | 15.37                | 15.42                | 15.16         |                |           |  |  |  |
| 5               | HQAM    | 12      | 13                  | 15.25                | 15.32                | 15.05         |                |           |  |  |  |
| 5               | HQAM    | 25      | 0                   | 15.21                | 15.29                | 15.31         |                |           |  |  |  |
| 5               | HQAM    | 25      | 12                  | 15.30                | 15.17                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 0                   | 15.21                | 15.41                | 15.35         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 12                  | 15.31                | 15.31                | 15.26         |                |           |  |  |  |
| 5               | HQAM    | 1       | 24                  | 15.31                | 15.29                | 15.28         |                |           |  |  |  |
| 5               | HQAM    | 12      | 0                   | 15.30                | 15.30                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 12      | 7                   | 15.37                | 15.42                | 15.16         |                |           |  |  |  |
| 5               | HQAM    | 12      | 13                  | 15.25                | 15.32                | 15.05         |                |           |  |  |  |
| 5               | HQAM    | 25      | 0                   | 15.21                | 15.29                | 15.31         |                |           |  |  |  |
| 5               | HQAM    | 25      | 12                  | 15.30                | 15.17                | 15.28         | 18.6           | 0         |  |  |  |
| 5               | HQAM    | 1       | 0                   | 15.21                | 15.41                | 15.35         | 18.6           | 0         |  |  |  |
| 5               |         |         |                     |                      |                      |               |                |           |  |  |  |



| Band 66_Ant 2   |            |         |           |                        |                        |                        |                    |          |  |  |  |  |
|-----------------|------------|---------|-----------|------------------------|------------------------|------------------------|--------------------|----------|--|--|--|--|
| BW (MHz)        | Modulation | RF Band | RF Offset | Power Line Ch. (Freq.) | Power Line Ch. (Freq.) | Power High Ch. (Freq.) | Turn-on time (sec) | MFR (dB) |  |  |  |  |
| Channel         |            |         |           |                        |                        |                        |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 150202                 | 150232                 | 150575                 |                    |          |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 23.19                  | 23.11                  | 22.93                  |                    |          |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 23.21                  | 23.20                  | 23.20                  | 24                 | 0        |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 23.21                  | 23.19                  | 23.19                  |                    |          |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.05                  | 23.19                  | 23.05                  |                    |          |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.03                  | 23.23                  | 23.23                  | 24                 | 0        |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.16                  | 23.18                  | 23.05                  |                    |          |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.15                  | 23.20                  | 23.07                  |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.21                  | 23.03                  | 22.97                  |                    |          |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.20                  | 23.04                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.20                  | 23.05                  | 23.05                  |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.95                  | 23.05                  | 22.95                  |                    |          |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 23.21                  | 23.23                  | 23.04                  | 24                 | 0        |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 23.16                  | 23.16                  | 23.05                  |                    |          |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.92                  | 23.25                  | 23.07                  |                    |          |  |  |  |  |
| 20              | 8QAM       | 1       | 0         | 22.91                  | 23.05                  | 22.95                  | 24                 | 0        |  |  |  |  |
| 20              | 8QAM       | 1       | 49        | 22.95                  | 23.15                  | 23.05                  |                    |          |  |  |  |  |
| 20              | 8QAM       | 1       | 99        | 22.95                  | 23.05                  | 22.95                  |                    |          |  |  |  |  |
| 20              | 8QAM       | 50      | 0         | 21.72                  | 21.71                  | 21.45                  |                    |          |  |  |  |  |
| 20              | 8QAM       | 50      | 24        | 21.94                  | 21.95                  | 21.75                  | 23                 | 1        |  |  |  |  |
| 20              | 8QAM       | 50      | 50        | 21.97                  | 21.75                  | 21.45                  |                    |          |  |  |  |  |
| 20              | 8QAM       | 100     | 0         | 21.95                  | 21.95                  | 21.45                  |                    |          |  |  |  |  |
| 20              | 256QAM     | 1       | 0         | 18.95                  | 18.94                  | 18.95                  |                    |          |  |  |  |  |
| 20              | 256QAM     | 1       | 49        | 18.95                  | 18.94                  | 18.95                  | 20                 | 4        |  |  |  |  |
| 20              | 256QAM     | 1       | 99        | 18.95                  | 18.95                  | 18.94                  |                    |          |  |  |  |  |
| 20              | 256QAM     | 50      | 0         | 18.97                  | 18.93                  | 18.95                  |                    |          |  |  |  |  |
| 20              | 256QAM     | 50      | 24        | 18.91                  | 18.95                  | 18.97                  | 20                 | 4        |  |  |  |  |
| 20              | 256QAM     | 50      | 50        | 18.95                  | 18.95                  | 18.97                  |                    |          |  |  |  |  |
| 20              | 256QAM     | 100     | 0         | 18.91                  | 18.95                  | 18.95                  |                    |          |  |  |  |  |
| Channel         |            |         |           |                        |                        |                        |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 150202                 | 150232                 | 150575                 | Turn-on time (sec) | MFR (dB) |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 23.18                  | 23.05                  | 22.95                  |                    |          |  |  |  |  |
| 15              | QPSK       | 1       | 25        | 23.11                  | 23.05                  | 22.95                  | 24                 | 0        |  |  |  |  |
| 15              | QPSK       | 1       | 49        | 22.77                  | 23.05                  | 22.95                  |                    |          |  |  |  |  |
| 15              | QPSK       | 25      | 0         | 22.92                  | 23.05                  | 22.95                  |                    |          |  |  |  |  |
| 15              | QPSK       | 25      | 25        | 23.02                  | 23.05                  | 22.95                  |                    |          |  |  |  |  |
| 15              | QPSK       | 25      | 25        | 22.97                  | 23.03                  | 22.95                  |                    |          |  |  |  |  |
| 15              | QPSK       | 50      | 0         | 23.15                  | 23.15                  | 22.75                  |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.05                  | 23.01                  | 22.95                  |                    |          |  |  |  |  |
| 15              | 16QAM      | 1       | 25        | 23.12                  | 23.01                  | 23.03                  | 24                 | 0        |  |  |  |  |
| 15              | 16QAM      | 1       | 49        | 22.93                  | 22.85                  | 22.75                  |                    |          |  |  |  |  |
| 15              | 16QAM      | 25      | 0         | 22.73                  | 23.05                  | 22.95                  |                    |          |  |  |  |  |
| 15              | 16QAM      | 25      | 12        | 23.03                  | 23.12                  | 22.95                  | 24                 | 0        |  |  |  |  |
| 15              | 16QAM      | 25      | 25        | 22.81                  | 23.07                  | 22.85                  |                    |          |  |  |  |  |
| 15              | 16QAM      | 50      | 0         | 22.84                  | 23.05                  | 23.02                  |                    |          |  |  |  |  |
| 15              | 8QAM       | 1       | 0         | 22.71                  | 23.05                  | 22.95                  | 24                 | 0        |  |  |  |  |
| 15              | 8QAM       | 1       | 25        | 22.95                  | 23.05                  | 23.05                  |                    |          |  |  |  |  |
| 15              | 8QAM       | 1       | 49        | 22.44                  | 22.87                  | 22.74                  |                    |          |  |  |  |  |
| 15              | 8QAM       | 25      | 0         | 21.95                  | 21.85                  | 21.25                  |                    |          |  |  |  |  |
| 15              | 8QAM       | 25      | 12        | 21.85                  | 21.77                  | 21.75                  | 23                 | 1        |  |  |  |  |
| 15              | 8QAM       | 25      | 25        | 21.72                  | 21.81                  | 21.52                  |                    |          |  |  |  |  |
| 15              | 8QAM       | 50      | 0         | 23.01                  | 23.01                  | 22.95                  |                    |          |  |  |  |  |
| 15              | 256QAM     | 1       | 0         | 18.95                  | 18.95                  | 18.95                  |                    |          |  |  |  |  |
| 15              | 256QAM     | 1       | 25        | 18.79                  | 18.95                  | 18.95                  | 20                 | 4        |  |  |  |  |
| 15              | 256QAM     | 1       | 49        | 18.95                  | 18.97                  | 18.95                  |                    |          |  |  |  |  |
| 15              | 256QAM     | 25      | 0         | 18.97                  | 18.95                  | 18.95                  |                    |          |  |  |  |  |
| 15              | 256QAM     | 25      | 12        | 18.95                  | 18.95                  | 18.95                  | 20                 | 4        |  |  |  |  |
| 15              | 256QAM     | 25      | 25        | 18.95                  | 18.94                  | 18.95                  |                    |          |  |  |  |  |
| 15              | 256QAM     | 50      | 0         | 18.95                  | 18.95                  | 18.95                  |                    |          |  |  |  |  |
| Channel         |            |         |           |                        |                        |                        |                    |          |  |  |  |  |
| Frequency (MHz) |            |         |           | 150202                 | 150232                 | 150575                 | Turn-on time (sec) | MFR (dB) |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.99                  | 23.15                  | 22.94                  | 24                 | 0        |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 23.13                  | 23.05                  | 22.95                  |                    |          |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 23.24                  | 23.05                  | 22.83                  |                    |          |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.05                  | 22.91                  | 22.85                  |                    |          |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.13                  | 23.12                  | 22.95                  | 24                 | 0        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.13                  | 23.02                  | 22.75                  |                    |          |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.95                  | 23.11                  | 22.72                  |                    |          |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.05                  | 23.02                  | 22.75                  |                    |          |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.97                  | 23.75                  | 23.01                  | 24                 | 0        |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 1       | 0         | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 1       | 12        | 22.97                  | 23.75                  | 23.01                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 1       | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 13        | 23.01                  | 23.11                  | 22.91                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 0         | 22.70                  | 23.24                  | 23.05                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 25      | 12        | 22.95                  | 23.75                  | 23.05                  | 24                 | 0        |  |  |  |  |
| 5               | 8QAM       | 25      | 24        | 22.85                  | 22.85                  | 22.84                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 0         | 22.84                  | 23.04                  | 22.85                  |                    |          |  |  |  |  |
| 5               | 8QAM       | 12      | 7         | 23.05                  | 23.04                  | 22.95                  |                    |          |  |  |  |  |
|                 |            |         |           |                        |                        |                        |                    |          |  |  |  |  |

| Band 38_Ant 1   |            |            |              |                             |                              |                              |                        |              |  |  |  |
|-----------------|------------|------------|--------------|-----------------------------|------------------------------|------------------------------|------------------------|--------------|--|--|--|
| Ant<br>(MHz)    | Modulation | RF<br>Rate | RF<br>Offset | Power<br>Low<br>Ch./1 Freq. | Power<br>High<br>Ch./1 Freq. | Power<br>High<br>Ch./2 Freq. | Turn-up<br>rate (dB/s) | APRS<br>(dB) |  |  |  |
| Channel         |            |            |              |                             |                              |                              |                        |              |  |  |  |
| Frequency (MHz) |            |            |              | 37650                       | 38000                        | 38050                        |                        |              |  |  |  |
| 20              | QPSK       | 1          | 0            | 17.28                       | 17.38                        | 17.11                        |                        |              |  |  |  |
| 20              | QPSK       | 1          | 48           | 17.41                       | 17.47                        | 17.35                        | 18.5                   |              |  |  |  |
| 20              | QPSK       | 50         | 80           | 17.60                       | 17.65                        | 17.52                        |                        |              |  |  |  |
| 20              | QPSK       | 50         | 0            | 17.35                       | 17.40                        | 17.31                        |                        |              |  |  |  |
| 20              | QPSK       | 50         | 24           | 17.37                       | 17.45                        | 17.35                        | 18.5                   | 0            |  |  |  |
| 20              | QPSK       | 50         | 50           | 17.53                       | 17.52                        | 17.23                        |                        |              |  |  |  |
| 20              | QPSK       | 100        | 0            | 17.38                       | 17.43                        | 17.28                        |                        |              |  |  |  |
| 20              | HQAM       | 1          | 0            | 17.21                       | 17.38                        | 17.27                        |                        |              |  |  |  |
| 20              | HQAM       | 1          | 48           | 17.34                       | 17.38                        | 17.32                        | 18.5                   | 0            |  |  |  |
| 20              | HQAM       | 50         | 80           | 17.50                       | 17.51                        | 17.26                        |                        |              |  |  |  |
| 20              | HQAM       | 50         | 0            | 17.31                       | 17.15                        | 17.12                        |                        |              |  |  |  |
| 20              | HQAM       | 50         | 24           | 17.42                       | 17.35                        | 17.31                        | 18.5                   | 0            |  |  |  |
| 20              | HQAM       | 50         | 50           | 17.58                       | 17.51                        | 17.25                        |                        |              |  |  |  |
| 20              | HQAM       | 100        | 0            | 17.28                       | 17.35                        | 17.28                        |                        |              |  |  |  |
| 20              | HQAM       | 1          | 0            | 18.06                       | 17.09                        | 17.25                        |                        |              |  |  |  |
| 20              | HQAM       | 1          | 48           | 17.50                       | 17.11                        | 17.22                        | 18.5                   | 0            |  |  |  |
| 20              | HQAM       | 1          | 80           | 17.27                       | 17.28                        | 17.20                        |                        |              |  |  |  |
| 20              | HQAM       | 50         | 0            | 17.58                       | 17.27                        | 17.23                        |                        |              |  |  |  |
| 20              | HQAM       | 50         | 24           | 17.38                       | 17.26                        | 17.16                        | 18.5                   | 0            |  |  |  |
| 20              | HQAM       | 50         | 50           | 17.50                       | 17.34                        | 17.17                        |                        |              |  |  |  |
| 20              | HQAM       | 100        | 0            | 17.32                       | 17.28                        | 17.18                        |                        |              |  |  |  |
| 20              | ZS3GAM     | 1          | 0            | 17.28                       | 17.12                        | 16.93                        |                        |              |  |  |  |
| 20              | ZS3GAM     | 1          | 48           | 17.30                       | 17.21                        | 16.97                        | 18.5                   | 0            |  |  |  |
| 20              | ZS3GAM     | 1          | 80           | 17.28                       | 17.32                        | 17.05                        |                        |              |  |  |  |
| 20              | ZS3GAM     | 50         | 0            | 17.22                       | 17.27                        | 17.22                        |                        |              |  |  |  |
| 20              | ZS3GAM     | 50         | 24           | 17.24                       | 17.48                        | 17.24                        | 18.5                   | 0            |  |  |  |
| 20              | ZS3GAM     | 50         | 50           | 17.31                       | 17.18                        | 17.18                        |                        |              |  |  |  |
| 20              | ZS3GAM     | 100        | 0            | 17.17                       | 17.32                        | 17.27                        |                        |              |  |  |  |
| Channel         |            |            |              |                             |                              |                              |                        |              |  |  |  |
| Frequency (MHz) |            |            |              | 37650                       | 38000                        | 38050                        | Turn-up<br>rate (dB/s) | APRS<br>(dB) |  |  |  |
| 15              | QPSK       | 1          | 0            | 17.63                       | 17.11                        | 16.87                        |                        |              |  |  |  |
| 15              | QPSK       | 1          | 37           | 17.32                       | 17.38                        | 17.27                        | 18.5                   | 0            |  |  |  |
| 15              | QPSK       | 1          | 74           | 17.50                       | 17.21                        | 17.09                        |                        |              |  |  |  |
| 15              | QPSK       | 30         | 0            | 17.27                       | 17.28                        | 17.20                        |                        |              |  |  |  |
| 15              | QPSK       | 30         | 20           | 17.25                       | 17.39                        | 17.22                        |                        |              |  |  |  |
| 15              | QPSK       | 30         | 39           | 17.30                       | 17.36                        | 17.17                        | 18.5                   | 0            |  |  |  |
| 15              | QPSK       | 1          | 0            | 17.11                       | 17.22                        | 17.28                        |                        |              |  |  |  |
| 15              | HQAM       | 1          | 37           | 17.23                       | 17.31                        | 17.28                        | 18.5                   | 0            |  |  |  |
| 15              | HQAM       | 1          | 74           | 17.50                       | 17.38                        | 17.21                        |                        |              |  |  |  |
| 15              | HQAM       | 30         | 0            | 17.28                       | 17.06                        | 17.12                        |                        |              |  |  |  |
| 15              | HQAM       | 30         | 20           | 17.35                       | 17.38                        | 17.25                        | 18.5                   | 0            |  |  |  |
| 15              | HQAM       | 30         | 39           | 17.35                       | 17.25                        | 17.12                        |                        |              |  |  |  |
| 15              | HQAM       | 30         | 0            | 17.18                       | 17.28                        | 17.20                        |                        |              |  |  |  |
| 15              | HQAM       | 1          | 0            | 16.78                       | 16.84                        | 17.04                        |                        |              |  |  |  |
| 15              | HQAM       | 1          | 37           | 17.28                       | 17.06                        | 17.08                        | 18.5                   | 0            |  |  |  |
| 15              | HQAM       | 1          | 74           | 17.50                       | 17.23                        | 17.10                        |                        |              |  |  |  |
| 15              | HQAM       | 30         | 0            | 17.18                       | 17.08                        | 17.00                        |                        |              |  |  |  |
| 15              | HQAM       | 30         | 20           | 17.40                       | 17.12                        | 17.00                        | 18.5                   | 0            |  |  |  |
| 15              | HQAM       | 30         | 39           | 17.28                       | 17.25                        | 17.07                        |                        |              |  |  |  |
| 15              | HQAM       | 1          | 0            | 17.21                       | 17.07                        | 17.24                        |                        |              |  |  |  |
| 15              | ZS3GAM     | 1          | 0            | 17.05                       | 16.87                        | 16.88                        |                        |              |  |  |  |
| 15              | ZS3GAM     | 1          | 37           | 17.18                       | 17.13                        | 17.44                        | 18.5                   | 0            |  |  |  |
| 15              | ZS3GAM     | 1          | 74           | 17.18                       | 17.13                        | 17.10                        |                        |              |  |  |  |
| 15              | ZS3GAM     | 30         | 0            | 16.99                       | 17.21                        | 17.08                        |                        |              |  |  |  |
| 15              | ZS3GAM     | 30         | 20           | 17.00                       | 17.01                        | 17.18                        | 18.5                   | 0            |  |  |  |
| 15              | ZS3GAM     | 30         | 39           | 17.10                       | 17.10                        | 17.19                        |                        |              |  |  |  |
| 15              | ZS3GAM     | 75         | 0            | 17.20                       | 17.10                        | 17.19                        |                        |              |  |  |  |
| Channel         |            |            |              |                             |                              |                              |                        |              |  |  |  |
| Frequency (MHz) |            |            |              | 37650                       | 38000                        | 38050                        | Turn-up<br>rate (dB/s) | APRS<br>(dB) |  |  |  |
| 10              | QPSK       | 1          | 0            | 17.63                       | 17.11                        | 16.87                        |                        |              |  |  |  |
| 10              | QPSK       | 1          | 37           | 17.32                       | 17.38                        | 17.27                        | 18.5                   | 0            |  |  |  |
| 10              | QPSK       | 1          | 74           | 17.50                       | 17.21                        | 17.09                        |                        |              |  |  |  |
| 10              | QPSK       | 30         | 0            | 17.27                       | 17.28                        | 17.20                        |                        |              |  |  |  |
| 10              | QPSK       | 30         | 20           | 17.25                       | 17.39                        | 17.22                        |                        |              |  |  |  |
| 10              | QPSK       | 30         | 39           | 17.30                       | 17.36                        | 17.17                        | 18.5                   | 0            |  |  |  |
| 10              | QPSK       | 1          | 0            | 17.11                       | 17.22                        | 17.28                        |                        |              |  |  |  |
| 10              | HQAM       | 1          | 37           | 17.23                       | 17.31                        | 17.28                        | 18.5                   | 0            |  |  |  |
| 10              | HQAM       | 1          | 74           | 17.50                       | 17.38                        | 17.21                        |                        |              |  |  |  |
| 10              | HQAM       | 30         | 0            | 17.28                       | 17.06                        | 17.12                        |                        |              |  |  |  |
| 10              | HQAM       | 30         | 20           | 17.35                       | 17.38                        | 17.25                        | 18.5                   | 0            |  |  |  |
| 10              | HQAM       | 30         | 39           | 17.35                       | 17.25                        | 17.12                        |                        |              |  |  |  |
| 10              | HQAM       | 30         | 0            | 17.18                       | 17.28                        | 17.20                        |                        |              |  |  |  |
| 10              | HQAM       | 1          | 0            | 16.78                       | 16.84                        | 17.04                        |                        |              |  |  |  |
| 10              | HQAM       | 1          | 37           | 17.28                       | 17.06                        | 17.08                        | 18.5                   | 0            |  |  |  |
| 10              | HQAM       | 1          | 74           | 17.50                       | 17.23                        | 17.10                        |                        |              |  |  |  |
| 10              | HQAM       | 30         | 0            | 17.18                       | 17.08                        | 17.00                        |                        |              |  |  |  |
| 10              | HQAM       | 30         | 20           | 17.40                       | 17.12                        | 17.00                        | 18.5                   | 0            |  |  |  |
| 10              | HQAM       | 30         | 39           | 17.28                       | 17.25                        | 17.07                        |                        |              |  |  |  |
| 10              | HQAM       | 1          | 0            | 17.21                       | 17.07                        | 17.24                        |                        |              |  |  |  |
| 10              | ZS3GAM     | 1          | 0            | 17.05                       | 16.87                        | 16.88                        |                        |              |  |  |  |
| 10              | ZS3GAM     | 1          | 37           | 17.18                       | 17.13                        | 17.44                        | 18.5                   | 0            |  |  |  |
| 10              | ZS3GAM     | 1          | 74           | 17.18                       | 17.13                        | 17.10                        |                        |              |  |  |  |
| 10              | ZS3GAM     | 30         | 0            | 16.99                       | 17.21                        | 17.08                        |                        |              |  |  |  |
| 10              | ZS3GAM     | 30         | 20           | 17.00                       | 17.01                        | 17.18                        | 18.5                   | 0            |  |  |  |
| 10              | ZS3GAM     | 30         | 39           | 17.10                       | 17.10                        | 17.19                        |                        |              |  |  |  |
| 10              | ZS3GAM     | 75         | 0            | 17.20                       | 17.10                        | 17.19                        |                        |              |  |  |  |

| Band 38_Ant 2   |            |            |              |                                                                         |                              |                                               |                           |              |  |  |  |
|-----------------|------------|------------|--------------|-------------------------------------------------------------------------|------------------------------|-----------------------------------------------|---------------------------|--------------|--|--|--|
| Ant<br>(MHz)    | Modulation | RF<br>Rate | RF<br>Offset | Power<br>Low<br>Ch./1 Freq.                                             | Power<br>High<br>Ch./1 Freq. | Power<br>Low<br>Ch./2 Freq.                   | Turn-up<br>rate<br>(dB/s) | APRS<br>(dB) |  |  |  |
| Channel         |            |            |              |                                                                         |                              |                                               |                           |              |  |  |  |
| Frequency (MHz) |            |            |              | 37600                                                                   | 38000                        | 38150                                         |                           |              |  |  |  |
| 20              | QPSK       | 1          | 0            | 22.71                                                                   | 22.81                        | 22.88                                         |                           |              |  |  |  |
| 20              | QPSK       | 1          | 48           | 22.85                                                                   | 22.97                        | 22.97                                         | 24                        | 0            |  |  |  |
| 20              | QPSK       | 50         | 80           | 22.72                                                                   | 22.71                        | 22.44                                         |                           |              |  |  |  |
| 20              | QPSK       | 50         | 0            | 22.58                                                                   | 22.82                        | 22.52                                         |                           |              |  |  |  |
| 20              | QPSK       | 50         | 24           | 22.52                                                                   | 22.95                        | 22.64                                         | 24                        | 0            |  |  |  |
| 20              | QPSK       | 50         | 50           | 22.78                                                                   | 22.80                        | 22.83                                         |                           |              |  |  |  |
| 20              | QPSK       | 50         | 80           | 22.98                                                                   | 22.95                        | 22.81                                         |                           |              |  |  |  |
| 20              | HQAM       | 1          | 0            | 22.78                                                                   | 22.85                        | 22.34                                         |                           |              |  |  |  |
| 20              | HQAM       | 1          | 48           | 22.79                                                                   | 22.78                        | 22.59                                         | 24                        | 0            |  |  |  |
| 20              | HQAM       | 50         | 80           | 22.75                                                                   | 22.85                        | 22.35                                         |                           |              |  |  |  |
| 20              | HQAM       | 50         | 0            | 22.33                                                                   | 22.78                        | 22.24                                         |                           |              |  |  |  |
| 20              | HQAM       | 50         | 24           | 22.85                                                                   | 22.78                        | 22.69                                         | 24                        |              |  |  |  |
| 20              | HQAM       | 50         | 50           | 22.98                                                                   | 22.72                        | 22.53                                         |                           |              |  |  |  |
| 20              | HQAM       | 100        | 0            | 22.88                                                                   | 22.82                        | 22.52                                         |                           |              |  |  |  |
| 20              | HQAM       | 1          | 0            | 22.56                                                                   | 22.21                        | 22.30                                         |                           |              |  |  |  |
| 20              | HQAM       | 1          | 48           | 22.88                                                                   | 22.76                        | 22.73                                         | 24                        |              |  |  |  |
| 20              | HQAM       | 1          | 80           | 22.72                                                                   | 22.70                        | 22.48                                         |                           |              |  |  |  |
| 20              | HQAM       | 50         | 0            | 21.64                                                                   | 21.80                        | 21.37                                         |                           |              |  |  |  |
| 20              | HQAM       | 50         | 24           | 21.81                                                                   | 22.01                        | 21.59                                         | 23                        |              |  |  |  |
| 20              | HQAM       | 50         | 50           | 21.80                                                                   | 21.72                        | 21.53                                         |                           |              |  |  |  |
| 20              | HQAM       | 100        | 0            | 21.85                                                                   | 21.80                        | 21.71                                         |                           |              |  |  |  |
| 20              | ZS3GAM     | 1          | 0            | 19.24                                                                   | 19.28                        | 19.00                                         |                           |              |  |  |  |
| 20              | ZS3GAM     | 1          | 48           | 19.31                                                                   | 19.30                        | 19.17                                         | 20                        | 4            |  |  |  |
| 20              | ZS3GAM     | 1          | 80           | 19.38                                                                   | 19.38                        | 19.38                                         |                           |              |  |  |  |
| 20              | ZS3GAM     | 50         | 0            | 19.23                                                                   | 19.28                        | 19.25                                         |                           |              |  |  |  |
| 20              | ZS3GAM     | 50         | 24           | 19.39                                                                   | 19.39                        | 19.34                                         |                           |              |  |  |  |
| 20              | ZS3GAM     | 50         | 50           | 19.13                                                                   | 19.15                        | 19.03                                         |                           |              |  |  |  |
| 20              | ZS3GAM     | 100        | 0            | 19.02                                                                   | 19.03                        | 19.08                                         |                           |              |  |  |  |
| Channel         |            |            |              |                                                                         |                              |                                               |                           |              |  |  |  |
| Frequency (MHz) |            |            |              | 37600                                                                   | 38000                        | 38175                                         |                           |              |  |  |  |
| 15              | QPSK       | 1          | 0            | 22.43                                                                   | 22.50                        | 22.23                                         |                           |              |  |  |  |
| 15              | QPSK       | 1          | 48           | 22.65                                                                   | 22.71                        | 22.71                                         | 24                        | 0            |  |  |  |
| 15              | QPSK       | 1          | 74           | 22.50                                                                   | 22.63                        | 22.42                                         |                           |              |  |  |  |
| 15              | QPSK       | 50         | 80           | 22.65                                                                   | 22.77                        | 22.58                                         |                           |              |  |  |  |
| 15              | QPSK       | 50         | 0            | 22.48                                                                   | 22.72                        | 22.34                                         |                           |              |  |  |  |
| 15              | QPSK       | 50         | 24           | 22.83                                                                   | 22.81                        | 22.70                                         | 24                        |              |  |  |  |
| 15              | QPSK       | 50         | 50           | 22.73                                                                   | 22.73                        | 22.58                                         |                           |              |  |  |  |
| 15              | HQAM       | 1          | 0            | 22.30                                                                   | 22.85                        | 22.34                                         |                           |              |  |  |  |
| 15              | HQAM       | 1          | 48           | 22.34                                                                   | 22.87                        | 22.63                                         | 24                        |              |  |  |  |
| 15              | HQAM       | 1          | 74           | 22.78                                                                   | 22.80                        | 22.27                                         |                           |              |  |  |  |
| 15              | HQAM       | 50         | 80           | 22.54                                                                   | 22.54                        | 22.41                                         |                           |              |  |  |  |
| 15              | HQAM       | 50         | 0            | 22.37                                                                   | 22.78                        | 22.38                                         |                           |              |  |  |  |
| 15              | HQAM       | 50         | 24           | 22.64                                                                   | 22.58                        | 22.38                                         | 24                        |              |  |  |  |
| 15              | HQAM       | 50         | 50           | 22.43                                                                   | 22.57                        | 22.35                                         |                           |              |  |  |  |
| 15              | HQAM       | 1          | 0            | 22.03                                                                   | 22.87                        | 22.02                                         |                           |              |  |  |  |
| 15              | HQAM       | 1          | 27           | 22.61                                                                   | 22.53                        | 22.78                                         | 24                        | 0            |  |  |  |
| 15              | HQAM       | 1          | 48           | 22.84                                                                   | 22.84                        | 22.84                                         |                           |              |  |  |  |
| 15              | HQAM       | 50         | 80           | 21.47                                                                   | 21.88                        | 21.45                                         |                           |              |  |  |  |
| 15              | HQAM       | 50         | 0            | 21.62                                                                   | 22.02                        | 21.40                                         |                           |              |  |  |  |
| 15              | HQAM       | 50         | 24           | 21.60                                                                   | 21.72                        | 21.44                                         | 23                        | 1            |  |  |  |
| 15              | HQAM       | 50         | 50           | 21.60                                                                   | 21.60                        | 21.60                                         |                           |              |  |  |  |
| 15              | ZS3GAM     | 1          | 0            | 19.14                                                                   | 19.07                        | 18.97                                         |                           |              |  |  |  |
| 15              | ZS3GAM     | 1          | 27           | 19.09                                                                   | 19.18                        | 19.10                                         | 20                        |              |  |  |  |
| 15              | ZS3GAM     | 1          | 48           | 19.38                                                                   | 19.38                        | 19.38                                         |                           |              |  |  |  |
| 15              | ZS3GAM     | 50         | 80           | 19.21                                                                   | 19.18                        | 19.14                                         |                           |              |  |  |  |
| 15              | ZS3GAM     | 50         | 0            | 19.13                                                                   | 19.07                        | 18.95                                         |                           |              |  |  |  |
| 15              | ZS3GAM     | 50         | 24           | 19.04                                                                   | 19.07                        | 19.02                                         | 20                        | 4            |  |  |  |
| 15              | ZS3GAM     | 50         | 50           | 19.00                                                                   | 19.00                        | 19.00                                         |                           |              |  |  |  |
| Channel         |            |            |              |                                                                         |                              |                                               |                           |              |  |  |  |
| Frequency (MHz) |            |            |              | 37600                                                                   | 38000                        | 38200                                         |                           |              |  |  |  |
| 10              | QPSK       | 1          | 0            | 22.59                                                                   | 22.61                        | 22.41                                         |                           |              |  |  |  |
| 10              | QPSK       | 1          | 48           | 22.84                                                                   | 22.81                        | 22.81                                         | 24                        | 0            |  |  |  |
| 10              | QPSK       | 1          | 49           | 22.55                                                                   | 22.58                        | 22.57                                         |                           |              |  |  |  |
| 10              | QPSK       | 25         | 0            | 22.35                                                                   | 22.88                        | 22.48                                         |                           |              |  |  |  |
| 10              | QPSK       | 25         | 24           | 22.52                                                                   | 22.62                        | 22.62                                         | 24                        | 0            |  |  |  |
| 10              | QPSK       | 25         | 26           | 22.83                                                                   | 22.76                        | 22.63                                         |                           |              |  |  |  |
| 10              | QPSK       | 50         | 0            | 22.53                                                                   | 22.78                        | 22.63                                         |                           |              |  |  |  |
| 10              | HQAM       | 1          | 0            | 22.70                                                                   | 22.92                        | 22.68                                         |                           |              |  |  |  |
| 10              | HQAM       | 1          | 48           | 22.73                                                                   | 22.84                        | 22.84                                         | 24                        |              |  |  |  |
| 10              | HQAM       | 1          | 49           | 22.87                                                                   | 22.77                        | 22.34                                         |                           |              |  |  |  |
| 10              | HQAM       | 25         | 0            | 22.19                                                                   | 22.85                        | 22.58                                         |                           |              |  |  |  |
| 10              | HQAM       | 25         | 24           | 22.88                                                                   | 22.74                        | 22.68                                         | 24                        | 0            |  |  |  |
| 10              | HQAM       | 25         | 26           | 22.77                                                                   | 22.77                        | 22.43                                         |                           |              |  |  |  |
| 10              | HQAM       | 50         | 0            | 22.33                                                                   | 22.73                        | 22.48                                         |                           |              |  |  |  |
| 10              | HQAM       | 50         | 1            | 22.84                                                                   | 22.83                        | 22.38                                         |                           |              |  |  |  |
| 10              | HQAM       | 50         | 24           | 22.70                                                                   | 22.70                        | 22.48                                         | 24                        | 0            |  |  |  |
| 10              | HQAM       | 50         | 49           | 22.70                                                                   | 22.70                        | 22.48                                         |                           |              |  |  |  |
| 10              | HQAM       | 1          | 0            | 22.40                                                                   | 22.80                        | 22.40                                         |                           |              |  |  |  |
| 10              | HQAM       | 1          | 48           | 22.88                                                                   | 22.88                        | 22.88                                         |                           |              |  |  |  |
| 10              | ZS3GAM     | 1          | 0            | 19.19                                                                   | 19.24                        | 19.22                                         |                           |              |  |  |  |
| 10              | ZS3GAM     | 25         | 0            | 19.00                                                                   | 19.00                        | 19.00                                         | 20                        | 4            |  |  |  |
| 10              | ZS3GAM     | 50         | 0            | 19.15                                                                   | 19.03                        | 19.05                                         |                           |              |  |  |  |
| Channel         |            |            |              |                                                                         |                              |                                               |                           |              |  |  |  |
| Frequency (MHz) |            |            |              | 38125 <th>38150</th> <th>38175<th></th><th></th><th></th><th></th></th> | 38150                        | 38175 <th></th> <th></th> <th></th> <th></th> |                           |              |  |  |  |
| 5               | QPSK       | 1          | 0            | 22.48                                                                   | 22.71                        | 22.80                                         |                           |              |  |  |  |
| 5               | QPSK       | 1          | 42           | 22.68                                                                   | 22.79                        | 22.68                                         |                           |              |  |  |  |
| 5               | QPSK       | 1          | 44           | 22.74                                                                   | 22.92                        | 22.84                                         | 24                        | 0            |  |  |  |
| 5               | QPSK       | 1          | 45           | 22.80                                                                   | 22.79                        | 22.80                                         |                           |              |  |  |  |
| 5               | QPSK       | 12         | 7            | 22.84                                                                   | 22.84                        | 22.72                                         |                           |              |  |  |  |
| 5               | QPSK       | 12         | 13           | 22.72                                                                   | 22.87                        | 22.38                                         |                           |              |  |  |  |
| 5               | QPSK       | 12         | 14           | 22.87                                                                   | 22.87                        | 22.87                                         | 24                        |              |  |  |  |
| 5               | HQAM       | 1          | 0            | 22.67                                                                   | 22.85                        | 22.15                                         |                           |              |  |  |  |
| 5               | HQAM       | 1          | 42           | 22.60                                                                   | 22.72                        | 22.51                                         | 24                        | 0            |  |  |  |
| 5               | HQAM       | 1          | 43           | 22.70                                                                   | 22.70                        | 22.62                                         |                           |              |  |  |  |
| 5               | HQAM       | 12         | 0            | 22.22                                                                   | 22.98                        | 22.22                                         |                           |              |  |  |  |
| 5               | HQAM       | 12         | 7            | 22.48                                                                   | 22.68                        | 22.18                                         |                           |              |  |  |  |
| 5               | HQAM       | 12         | 13           | 22.74                                                                   | 22.86                        | 22.11                                         |                           |              |  |  |  |
| 5               | HQAM       | 12         | 14           | 22.81                                                                   | 22.74                        | 22.74                                         | 24                        |              |  |  |  |
| 5               | HQAM       | 1          | 0            | 22.43                                                                   | 22.70                        | 22.35                                         |                           |              |  |  |  |
| 5               | HQAM       | 1          | 42           | 22.80                                                                   | 22.81                        | 22.83                                         | 24                        | 0            |  |  |  |
| 5               | HQAM       | 12         | 0            | 21.74                                                                   | 21.84                        | 21.74                                         |                           |              |  |  |  |
| 5               | HQAM       | 12         | 0            | 21.98                                                                   | 21.93                        | 21.91                                         |                           |              |  |  |  |
| 5               | HQAM       | 12         | 7            | 21.71                                                                   | 21.80                        | 21.68                                         |                           |              |  |  |  |
| 5               | HQAM       | 12         | 13           | 21.84                                                                   | 21.82                        | 21.88                                         | 23                        | 1            |  |  |  |
| 5               | HQAM       | 12         | 14           | 21.85                                                                   | 21.86                        | 21.84                                         |                           |              |  |  |  |
| 5               | HQAM       | 1          | 0            | 19.02                                                                   | 19.16                        | 18.92                                         |                           |              |  |  |  |
| 5               | ZS3GAM     | 1          | 0            | 19.05                                                                   | 19.13                        | 19.10                                         | 20                        | 4            |  |  |  |
| 5               | ZS3GAM     | 12         | 0            | 19.12                                                                   | 19.08                        | 19.08                                         |                           |              |  |  |  |
| 5               | ZS3GAM     | 12         | 7            | 19.13                                                                   | 19.25                        | 19.12                                         |                           |              |  |  |  |
| 5               | ZS3GAM     | 12         | 7            | 19.16                                                                   | 19.04                        | 19.02                                         |                           |              |  |  |  |
| 5               | ZS3GAM     | 12         | 13           | 19.10                                                                   | 19.12                        | 19.05                                         | 20                        | 4            |  |  |  |
| 5               | ZS3GAM     | 12         | 14           | 19.10                                                                   | 19.10                        | 19.05                                         |                           |              |  |  |  |



| Band 41 (HPUE)_Ant 1 |            |          |           |                       |                              |                          |                               |                        |                    |          |  |  |  |  |  |  |
|----------------------|------------|----------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|--------------------|----------|--|--|--|--|--|--|
| BW (MHz)             | Modulation | RB (MHz) | HP Offset | Power Low Ch. (Freq.) | Power Low Middle Ch. (Freq.) | Power Middle Ch. (Freq.) | Power High Middle Ch. (Freq.) | Power High Ch. (Freq.) | Turn-on time (min) | APR (dB) |  |  |  |  |  |  |
| Channel              |            |          |           |                       |                              |                          |                               |                        |                    |          |  |  |  |  |  |  |
|                      |            |          |           | 36750                 | 40160                        | 40500                    | 41000                         | 41500                  |                    |          |  |  |  |  |  |  |
| Frequency (MHz)      |            |          |           | 2000                  | 2440.5                       | 2500                     | 2560.5                        | 2600                   |                    |          |  |  |  |  |  |  |
| 20                   | QPSK       | 1        | 0         | 18.93                 | 19.15                        | 19.19                    | 19.97                         | 19.91                  | 20.1               | 0        |  |  |  |  |  |  |
| 20                   | QPSK       | 1        | 40        | 19.02                 | 19.18                        | 19.23                    | 19.76                         | 19.17                  |                    |          |  |  |  |  |  |  |
| 20                   | QPSK       | 1        | 80        | 19.05                 | 19.15                        | 19.19                    | 19.82                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 20                   | QPSK       | 50       | 0         | 19.08                 | 19.08                        | 19.18                    | 19.82                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 20                   | QPSK       | 50       | 24        | 19.14                 | 19.15                        | 19.21                    | 19.91                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 20                   | QPSK       | 50       | 50        | 19.11                 | 19.13                        | 19.20                    | 19.82                         | 19.83                  |                    |          |  |  |  |  |  |  |
| 20                   | QPSK       | 50       | 80        | 19.08                 | 19.03                        | 19.10                    | 19.87                         | 19.91                  |                    |          |  |  |  |  |  |  |
| 20                   | QPSK       | 100      | 0         | 19.09                 | 19.10                        | 19.19                    | 19.98                         | 19.97                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 1        | 0         | 19.15                 | 19.19                        | 19.19                    | 19.88                         | 19.97                  | 20.1               | 0        |  |  |  |  |  |  |
| 20                   | 16QAM      | 1        | 40        | 19.10                 | 19.13                        | 19.02                    | 19.12                         | 19.14                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 50       | 0         | 19.07                 | 19.14                        | 19.08                    | 19.95                         | 19.94                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 50       | 24        | 19.04                 | 19.02                        | 19.10                    | 19.85                         | 19.91                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 50       | 50        | 19.04                 | 19.08                        | 19.15                    | 19.90                         | 19.97                  | 20.1               | 0        |  |  |  |  |  |  |
| 20                   | 16QAM      | 50       | 80        | 19.11                 | 19.14                        | 19.12                    | 19.95                         | 19.83                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 100      | 0         | 19.07                 | 19.18                        | 19.10                    | 19.90                         | 19.93                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 100      | 24        | 19.09                 | 19.07                        | 19.19                    | 19.97                         | 19.18                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 100      | 50        | 19.05                 | 19.03                        | 19.08                    | 19.85                         | 19.94                  | 20.1               | 0        |  |  |  |  |  |  |
| 20                   | 16QAM      | 50       | 0         | 19.08                 | 19.10                        | 19.00                    | 19.89                         | 19.93                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 50       | 24        | 19.16                 | 19.09                        | 19.11                    | 19.92                         | 19.88                  |                    |          |  |  |  |  |  |  |
| 20                   | 16QAM      | 50       | 50        | 19.11                 | 19.14                        | 19.12                    | 19.95                         | 19.83                  |                    |          |  |  |  |  |  |  |
| 20                   | 256QAM     | 1        | 0         | 19.17                 | 19.10                        | 19.15                    | 19.92                         | 19.92                  | 20.1               | 0        |  |  |  |  |  |  |
| 20                   | 256QAM     | 1        | 40        | 19.02                 | 19.07                        | 19.17                    | 19.85                         | 19.89                  |                    |          |  |  |  |  |  |  |
| 20                   | 256QAM     | 1        | 80        | 19.04                 | 19.17                        | 19.11                    | 19.72                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 20                   | 256QAM     | 50       | 0         | 19.09                 | 19.91                        | 19.14                    | 19.74                         | 19.93                  |                    |          |  |  |  |  |  |  |
| 20                   | 256QAM     | 50       | 24        | 19.05                 | 19.08                        | 19.10                    | 19.94                         | 19.94                  | 20.1               | 0        |  |  |  |  |  |  |
| 20                   | 256QAM     | 50       | 50        | 19.11                 | 19.12                        | 19.12                    | 19.92                         | 19.94                  |                    |          |  |  |  |  |  |  |
| 20                   | 256QAM     | 100      | 0         | 19.17                 | 19.10                        | 19.15                    | 19.92                         | 19.92                  |                    |          |  |  |  |  |  |  |
| 20                   | 256QAM     | 100      | 24        | 19.02                 | 19.08                        | 19.13                    | 19.86                         | 19.93                  |                    |          |  |  |  |  |  |  |
| Channel              |            |          |           |                       |                              |                          |                               |                        |                    |          |  |  |  |  |  |  |
| Frequency (MHz)      |            |          |           | 36725                 | 40173                        | 40500                    | 41008                         | 41515                  |                    |          |  |  |  |  |  |  |
| 15                   | QPSK       | 1        | 0         | 19.91                 | 19.96                        | 19.15                    | 19.96                         | 19.93                  | 20.1               | 0        |  |  |  |  |  |  |
| 15                   | QPSK       | 1        | 37        | 19.98                 | 19.99                        | 19.11                    | 19.98                         | 19.93                  |                    |          |  |  |  |  |  |  |
| 15                   | QPSK       | 1        | 74        | 19.89                 | 19.99                        | 19.08                    | 19.98                         | 19.98                  |                    |          |  |  |  |  |  |  |
| 15                   | QPSK       | 36       | 0         | 19.18                 | 19.03                        | 19.08                    | 19.95                         | 19.94                  |                    |          |  |  |  |  |  |  |
| 15                   | QPSK       | 36       | 20        | 19.12                 | 19.11                        | 19.13                    | 19.78                         | 19.98                  | 20.1               | 0        |  |  |  |  |  |  |
| 15                   | QPSK       | 36       | 36        | 19.98                 | 19.08                        | 19.10                    | 19.74                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 15                   | QPSK       | 36       | 50        | 19.05                 | 19.10                        | 19.00                    | 19.88                         | 19.94                  |                    |          |  |  |  |  |  |  |
| 15                   | QPSK       | 36       | 0         | 19.04                 | 19.07                        | 19.02                    | 19.88                         | 19.98                  |                    |          |  |  |  |  |  |  |
| 15                   | 16QAM      | 1        | 0         | 19.92                 | 19.87                        | 19.07                    | 19.78                         | 19.92                  | 20.1               | 0        |  |  |  |  |  |  |
| 15                   | 16QAM      | 1        | 37        | 19.97                 | 19.88                        | 19.04                    | 19.79                         | 19.95                  |                    |          |  |  |  |  |  |  |
| 15                   | 16QAM      | 1        | 74        | 19.89                 | 19.99                        | 19.08                    | 19.98                         | 19.98                  |                    |          |  |  |  |  |  |  |
| 15                   | 16QAM      | 36       | 0         | 19.18                 | 19.03                        | 19.08                    | 19.95                         | 19.94                  |                    |          |  |  |  |  |  |  |
| 15                   | 16QAM      | 36       | 20        | 19.12                 | 19.10                        | 19.03                    | 19.88                         | 19.91                  | 20.1               | 0        |  |  |  |  |  |  |
| 15                   | 16QAM      | 36       | 36        | 19.92                 | 19.87                        | 19.07                    | 19.89                         | 19.96                  |                    |          |  |  |  |  |  |  |
| 15                   | 16QAM      | 36       | 50        | 19.05                 | 19.11                        | 19.00                    | 19.87                         | 19.94                  |                    |          |  |  |  |  |  |  |
| 15                   | 16QAM      | 36       | 0         | 19.01                 | 19.03                        | 19.03                    | 19.81                         | 19.98                  |                    |          |  |  |  |  |  |  |
| 15                   | 256QAM     | 1        | 37        | 19.71                 | 19.93                        | 19.82                    | 19.81                         | 19.98                  | 20.1               | 0        |  |  |  |  |  |  |
| 15                   | 256QAM     | 1        | 74        | 19.85                 | 19.95                        | 19.04                    | 19.94                         | 19.94                  |                    |          |  |  |  |  |  |  |
| 15                   | 256QAM     | 36       | 0         | 19.11                 | 19.84                        | 19.17                    | 19.83                         | 19.84                  |                    |          |  |  |  |  |  |  |
| 15                   | 256QAM     | 36       | 20        | 19.91                 | 19.89                        | 19.05                    | 19.77                         | 19.87                  |                    |          |  |  |  |  |  |  |
| 15                   | 256QAM     | 36       | 36        | 19.91                 | 19.89                        | 19.05                    | 19.77                         | 19.87                  | 20.1               | 0        |  |  |  |  |  |  |
| 15                   | 256QAM     | 36       | 50        | 19.08                 | 19.86                        | 19.02                    | 19.74                         | 19.88                  |                    |          |  |  |  |  |  |  |
| 15                   | 256QAM     | 75       | 0         | 19.08                 | 19.83                        | 19.02                    | 19.74                         | 19.88                  |                    |          |  |  |  |  |  |  |
| 15                   | 256QAM     | 75       | 0         | 19.08                 | 19.83                        | 19.02                    | 19.74                         | 19.88                  |                    |          |  |  |  |  |  |  |
| Channel              |            |          |           |                       |                              |                          |                               |                        |                    |          |  |  |  |  |  |  |
| Frequency (MHz)      |            |          |           | 36750                 | 40160                        | 40500                    | 41080                         | 41540                  |                    |          |  |  |  |  |  |  |
| 10                   | QPSK       | 1        | 0         | 19.81                 | 19.84                        | 19.81                    | 19.81                         | 19.80                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | QPSK       | 1        | 20        | 19.98                 | 19.98                        | 19.15                    | 19.85                         | 19.95                  |                    |          |  |  |  |  |  |  |
| 10                   | QPSK       | 1        | 40        | 19.88                 | 19.14                        | 19.11                    | 19.84                         | 19.97                  |                    |          |  |  |  |  |  |  |
| 10                   | QPSK       | 25       | 0         | 19.88                 | 19.88                        | 19.04                    | 19.79                         | 19.88                  |                    |          |  |  |  |  |  |  |
| 10                   | QPSK       | 25       | 0         | 19.91                 | 19.91                        | 19.87                    | 19.80                         | 19.91                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | QPSK       | 25       | 20        | 19.90                 | 19.90                        | 19.11                    | 19.71                         | 19.86                  |                    |          |  |  |  |  |  |  |
| 10                   | QPSK       | 50       | 0         | 19.89                 | 19.91                        | 19.17                    | 19.95                         | 19.89                  |                    |          |  |  |  |  |  |  |
| 10                   | 16QAM      | 1        | 0         | 19.12                 | 19.08                        | 19.08                    | 19.78                         | 19.98                  |                    |          |  |  |  |  |  |  |
| 10                   | 16QAM      | 1        | 20        | 19.98                 | 19.98                        | 19.94                    | 19.98                         | 19.11                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 16QAM      | 1        | 40        | 19.08                 | 19.03                        | 19.07                    | 19.15                         | 19.82                  |                    |          |  |  |  |  |  |  |
| 10                   | 16QAM      | 1        | 80        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 16QAM      | 25       | 12        | 19.04                 | 19.08                        | 19.10                    | 19.82                         | 19.97                  |                    |          |  |  |  |  |  |  |
| 10                   | 16QAM      | 25       | 12        | 19.04                 | 19.08                        | 19.10                    | 19.82                         | 19.97                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 16QAM      | 50       | 0         | 19.94                 | 19.94                        | 19.96                    | 19.96                         | 19.76                  |                    |          |  |  |  |  |  |  |
| 10                   | 16QAM      | 50       | 0         | 19.94                 | 19.94                        | 19.96                    | 19.96                         | 19.76                  |                    |          |  |  |  |  |  |  |
| 10                   | 16QAM      | 50       | 0         | 19.94                 | 19.94                        | 19.96                    | 19.96                         | 19.76                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 1        | 0         | 19.90                 | 19.12                        | 19.03                    | 19.80                         | 19.77                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 1        | 20        | 19.98                 | 19.94                        | 19.09                    | 19.91                         | 19.99                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 1        | 40        | 19.92                 | 19.15                        | 19.15                    | 19.89                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 25       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 25       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 25       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 25       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 25       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 1        | 0         | 19.90                 | 19.12                        | 19.03                    | 19.80                         | 19.77                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 1        | 20        | 19.98                 | 19.94                        | 19.09                    | 19.91                         | 19.99                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 1        | 40        | 19.92                 | 19.15                        | 19.15                    | 19.89                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 1        | 20        | 19.98                 | 19.94                        | 19.09                    | 19.91                         | 19.99                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  |                    |          |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19.02                 | 19.73                        | 19.01                    | 19.79                         | 19.90                  | 20.1               | 0        |  |  |  |  |  |  |
| 10                   | 256QAM     | 12       | 12        | 19                    |                              |                          |                               |                        |                    |          |  |  |  |  |  |  |

| Band 48_Ant 3           |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
|-------------------------|------------|---------|-----------|----------------------------|----------------------------|-----------------------------|----------------------|---------------------|----------|--|--|--|
| BW (MHz)                | Modulation | RF Band | RF Offset | Power Low Freq (Ch / Freq) | Power Low Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Turn-up time (secs) | MFR (dB) |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 55500 55550 56150 56650 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 20                      | QPSK       | 1       | 0         | 21.22                      | 21.35                      | 21.41                       | 21.46                | 22                  | 0        |  |  |  |
| 20                      | QPSK       | 1       | 46        | 21.52                      | 21.64                      | 21.70                       | 21.75                |                     |          |  |  |  |
| 20                      | QPSK       | 50      | 0         | 21.54                      | 21.66                      | 21.69                       | 21.73                |                     |          |  |  |  |
| 20                      | QPSK       | 50      | 0         | 19.81                      | 19.93                      | 19.97                       | 19.99                |                     |          |  |  |  |
| 20                      | QPSK       | 50      | 24        | 19.69                      | 19.81                      | 19.85                       | 19.88                | 21                  | 1        |  |  |  |
| 20                      | QPSK       | 50      | 50        | 19.68                      | 19.80                      | 19.85                       | 19.81                |                     |          |  |  |  |
| 20                      | QPSK       | 100     | 0         | 19.69                      | 19.81                      | 19.85                       | 19.83                |                     |          |  |  |  |
| 20                      | 16QAM      | 1       | 0         | 20.38                      | 20.50                      | 20.53                       | 20.62                |                     |          |  |  |  |
| 20                      | 16QAM      | 1       | 46        | 20.61                      | 20.69                      | 20.64                       | 20.54                | 21                  | 1        |  |  |  |
| 20                      | 16QAM      | 1       | 46        | 20.74                      | 20.78                      | 20.78                       | 20.67                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 19.45                      | 19.58                      | 19.60                       | 19.79                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 24        | 19.62                      | 19.67                      | 19.56                       | 19.80                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 50        | 19.62                      | 19.65                      | 19.65                       | 19.73                | 20                  | 2        |  |  |  |
| 20                      | 16QAM      | 100     | 0         | 19.62                      | 19.63                      | 19.63                       | 19.76                |                     |          |  |  |  |
| 20                      | 16QAM      | 1       | 0         | 19.55                      | 19.46                      | 19.38                       | 19.81                |                     |          |  |  |  |
| 20                      | 16QAM      | 1       | 46        | 19.62                      | 19.61                      | 19.62                       | 19.68                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 17.52                      | 17.58                      | 17.67                       | 17.80                | 19                  | 3        |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 17.58                      | 17.66                      | 17.66                       | 17.82                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 24        | 17.58                      | 17.60                      | 17.60                       | 17.82                |                     |          |  |  |  |
| 20                      | 16QAM      | 50      | 50        | 17.60                      | 17.46                      | 17.28                       | 17.77                |                     |          |  |  |  |
| 20                      | 256QAM     | 1       | 0         | 20.19                      | 20.12                      | 20.23                       | 20.43                | 21                  | 1        |  |  |  |
| 20                      | 256QAM     | 1       | 46        | 20.23                      | 20.22                      | 20.18                       | 20.45                |                     |          |  |  |  |
| 20                      | 256QAM     | 50      | 0         | 20.30                      | 20.30                      | 20.27                       | 20.36                |                     |          |  |  |  |
| 20                      | 256QAM     | 100     | 0         | 20.08                      | 20.10                      | 20.10                       | 20.41                |                     |          |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 55515 55565 56165 56665 |            |         |           |                            |                            |                             |                      | Turn-up time (secs) | MFR (dB) |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 15                      | QPSK       | 1       | 0         | 21.08                      | 21.35                      | 21.44                       | 21.34                | 22                  | 0        |  |  |  |
| 15                      | QPSK       | 1       | 37        | 21.50                      | 21.46                      | 21.45                       | 21.33                |                     |          |  |  |  |
| 15                      | QPSK       | 1       | 74        | 21.17                      | 21.12                      | 21.10                       | 21.24                |                     |          |  |  |  |
| 15                      | QPSK       | 36      | 0         | 19.68                      | 19.42                      | 19.33                       | 19.75                |                     |          |  |  |  |
| 15                      | QPSK       | 36      | 20        | 19.60                      | 19.54                      | 19.40                       | 19.46                | 21                  | 1        |  |  |  |
| 15                      | QPSK       | 36      | 36        | 19.63                      | 19.35                      | 19.27                       | 19.64                |                     |          |  |  |  |
| 15                      | QPSK       | 74      | 0         | 19.66                      | 19.46                      | 19.28                       | 19.68                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 0         | 20.45                      | 20.23                      | 20.49                       | 20.37                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 37        | 20.38                      | 20.64                      | 20.26                       | 20.38                | 21                  | 1        |  |  |  |
| 15                      | 16QAM      | 1       | 74        | 20.67                      | 20.32                      | 20.51                       | 20.40                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 0         | 19.43                      | 19.61                      | 19.64                       | 19.75                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 20        | 18.42                      | 18.70                      | 19.36                       | 18.54                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 36        | 18.71                      | 18.93                      | 18.72                       | 18.45                | 20                  | 2        |  |  |  |
| 15                      | 16QAM      | 74      | 0         | 18.45                      | 18.66                      | 18.46                       | 18.75                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 0         | 19.57                      | 19.19                      | 19.35                       | 19.66                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 37        | 19.52                      | 19.37                      | 19.56                       | 19.74                |                     |          |  |  |  |
| 15                      | 16QAM      | 1       | 74        | 19.68                      | 19.68                      | 19.68                       | 19.67                | 20                  | 2        |  |  |  |
| 15                      | 16QAM      | 36      | 0         | 17.45                      | 17.54                      | 17.61                       | 17.68                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 20        | 17.46                      | 17.51                      | 17.49                       | 17.80                |                     |          |  |  |  |
| 15                      | 16QAM      | 36      | 36        | 17.68                      | 17.65                      | 17.64                       | 17.69                |                     |          |  |  |  |
| 15                      | 16QAM      | 74      | 0         | 17.49                      | 17.51                      | 17.51                       | 17.64                | 19                  | 3        |  |  |  |
| 15                      | 256QAM     | 1       | 0         | 19.93                      | 20.06                      | 20.04                       | 20.36                |                     |          |  |  |  |
| 15                      | 256QAM     | 1       | 37        | 20.69                      | 20.27                      | 20.67                       | 20.48                |                     |          |  |  |  |
| 15                      | 256QAM     | 1       | 74        | 20.11                      | 20.11                      | 20.10                       | 20.29                |                     |          |  |  |  |
| 15                      | 256QAM     | 36      | 0         | 20.25                      | 20.15                      | 20.35                       | 20.31                | 21                  | 1        |  |  |  |
| 15                      | 256QAM     | 36      | 20        | 20.52                      | 20.16                      | 20.42                       | 20.23                |                     |          |  |  |  |
| 15                      | 256QAM     | 36      | 36        | 20.52                      | 20.25                      | 20.25                       | 20.15                |                     |          |  |  |  |
| 15                      | 256QAM     | 74      | 0         | 20.01                      | 20.38                      | 20.22                       | 20.38                |                     |          |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 55500 55515 56165 56665 |            |         |           |                            |                            |                             |                      | Turn-up time (secs) | MFR (dB) |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 10                      | QPSK       | 1       | 0         | 21.19                      | 21.46                      | 21.43                       | 21.35                | 22                  | 0        |  |  |  |
| 10                      | QPSK       | 1       | 25        | 21.37                      | 21.35                      | 21.35                       | 21.43                |                     |          |  |  |  |
| 10                      | QPSK       | 1       | 46        | 21.33                      | 21.30                      | 21.29                       | 21.30                |                     |          |  |  |  |
| 10                      | QPSK       | 25      | 0         | 19.35                      | 19.46                      | 19.44                       | 19.51                |                     |          |  |  |  |
| 10                      | QPSK       | 25      | 12        | 19.40                      | 19.50                      | 19.39                       | 19.38                | 21                  | 1        |  |  |  |
| 10                      | QPSK       | 25      | 25        | 19.66                      | 19.38                      | 19.37                       | 19.37                |                     |          |  |  |  |
| 10                      | QPSK       | 50      | 0         | 19.58                      | 19.60                      | 19.51                       | 19.60                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 0         | 20.37                      | 20.31                      | 20.31                       | 20.55                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 25        | 20.61                      | 20.60                      | 20.53                       | 20.55                | 21                  | 1        |  |  |  |
| 10                      | 16QAM      | 1       | 46        | 20.64                      | 20.15                      | 20.45                       | 20.55                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 0         | 19.51                      | 19.60                      | 19.44                       | 19.76                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 12        | 19.53                      | 19.48                      | 19.43                       | 19.76                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 25        | 18.51                      | 18.62                      | 18.56                       | 18.49                | 20                  | 2        |  |  |  |
| 10                      | 16QAM      | 50      | 0         | 18.37                      | 18.65                      | 18.51                       | 18.58                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 0         | 19.49                      | 19.45                      | 19.11                       | 19.52                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 25        | 19.36                      | 19.59                      | 19.59                       | 19.73                |                     |          |  |  |  |
| 10                      | 16QAM      | 1       | 46        | 19.37                      | 19.42                      | 19.37                       | 19.63                | 20                  | 2        |  |  |  |
| 10                      | 16QAM      | 25      | 0         | 17.31                      | 17.43                      | 17.61                       | 17.69                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 12        | 17.64                      | 17.45                      | 17.61                       | 17.67                |                     |          |  |  |  |
| 10                      | 16QAM      | 25      | 25        | 17.35                      | 17.57                      | 17.42                       | 17.80                |                     |          |  |  |  |
| 10                      | 16QAM      | 50      | 0         | 17.46                      | 17.35                      | 17.68                       | 17.84                | 19                  | 3        |  |  |  |
| 10                      | 256QAM     | 1       | 0         | 20.03                      | 20.05                      | 20.04                       | 20.36                |                     |          |  |  |  |
| 10                      | 256QAM     | 1       | 25        | 20.23                      | 20.25                      | 20.09                       | 20.27                |                     |          |  |  |  |
| 10                      | 256QAM     | 1       | 46        | 20.08                      | 20.22                      | 19.85                       | 20.03                |                     |          |  |  |  |
| 10                      | 256QAM     | 25      | 0         | 20.09                      | 20.03                      | 20.37                       | 20.14                | 21                  | 1        |  |  |  |
| 10                      | 256QAM     | 25      | 12        | 20.25                      | 20.14                      | 20.40                       | 20.33                |                     |          |  |  |  |
| 10                      | 256QAM     | 25      | 25        | 20.28                      | 20.15                      | 19.89                       | 20.08                |                     |          |  |  |  |
| 10                      | 256QAM     | 50      | 0         | 20.14                      | 20.13                      | 20.27                       | 20.43                |                     |          |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 55515 55515 56170 56175 |            |         |           |                            |                            |                             |                      | Turn-up time (secs) | MFR (dB) |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |
| 5                       | QPSK       | 1       | 0         | 21.02                      | 21.20                      | 21.40                       | 21.42                | 22                  | 0        |  |  |  |
| 5                       | QPSK       | 1       | 37        | 21.37                      | 21.45                      | 21.46                       | 21.44                |                     |          |  |  |  |
| 5                       | QPSK       | 1       | 24        | 21.35                      | 21.40                      | 21.30                       | 21.36                |                     |          |  |  |  |
| 5                       | QPSK       | 12      | 0         | 19.69                      | 19.38                      | 19.29                       | 19.68                |                     |          |  |  |  |
| 5                       | QPSK       | 12      | 0         | 19.61                      | 19.34                      | 19.61                       | 19.40                | 21                  | 1        |  |  |  |
| 5                       | QPSK       | 12      | 7         | 19.61                      | 19.34                      | 19.61                       | 19.45                | 21                  | 1        |  |  |  |
| 5                       | QPSK       | 12      | 13        | 19.65                      | 19.32                      | 19.35                       | 19.38                |                     |          |  |  |  |
| 5                       | QPSK       | 12      | 19        | 19.67                      | 19.45                      | 19.48                       | 19.50                |                     |          |  |  |  |
| 5                       | QPSK       | 1       | 0         | 20.34                      | 20.33                      | 20.32                       | 20.32                |                     |          |  |  |  |
| 5                       | 16QAM      | 1       | 12        | 20.36                      | 20.41                      | 20.23                       | 20.38                | 21                  | 1        |  |  |  |
| 5                       | 16QAM      | 1       | 12        | 20.36                      | 20.37                      | 20.23                       | 20.38                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 0         | 19.68                      | 19.61                      | 19.32                       | 19.64                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 7         | 19.63                      | 19.60                      | 19.44                       | 19.63                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 13        | 19.67                      | 19.67                      | 19.72                       | 19.76                | 20                  | 2        |  |  |  |
| 5                       | 16QAM      | 12      | 19        | 19.69                      | 19.67                      | 19.73                       | 19.74                |                     |          |  |  |  |
| 5                       | 16QAM      | 1       | 0         | 19.44                      | 19.34                      | 19.58                       | 19.64                |                     |          |  |  |  |
| 5                       | 16QAM      | 1       | 12        | 19.44                      | 19.35                      | 19.56                       | 19.61                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 0         | 19.44                      | 19.34                      | 19.56                       | 19.63                | 20                  | 2        |  |  |  |
| 5                       | 16QAM      | 12      | 0         | 17.42                      | 17.62                      | 17.38                       | 17.63                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 7         | 17.31                      | 17.40                      | 17.47                       | 17.73                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 13        | 17.36                      | 17.68                      | 17.51                       | 17.74                |                     |          |  |  |  |
| 5                       | 16QAM      | 12      | 19        | 17.37                      | 17.68                      | 17.65                       | 17.71                | 19                  | 3        |  |  |  |
| 5                       | 256QAM     | 1       | 0         | 19.92                      | 20.06                      | 19.98                       | 20.26                |                     |          |  |  |  |
| 5                       | 256QAM     | 1       | 12        | 19.95                      | 20.24                      | 20.26                       | 20.27                |                     |          |  |  |  |
| 5                       | 256QAM     | 1       | 37        | 20.03                      | 20.03                      | 20.03                       | 20.25                |                     |          |  |  |  |
| 5                       | 256QAM     | 12      | 0         | 19.97                      | 20.26                      | 20.37                       | 20.25                | 21                  | 1        |  |  |  |
| 5                       | 256QAM     | 12      | 7         | 20.06                      | 20.01                      | 20.15                       | 20.28                |                     |          |  |  |  |
| 5                       | 256QAM     | 12      | 13        | 20.01                      | 20.06                      | 20.04                       | 20.26                |                     |          |  |  |  |
| 5                       | 256QAM     | 12      | 19        | 20.01                      | 20.04                      | 20.04                       | 20.26                |                     |          |  |  |  |





MINISTRY OF NATIONAL DEFENSE  
REPUBLIC OF TURKEY

| Band 2_Ant 1    |            |         |           |                  |                   |                   |               |                |           |
|-----------------|------------|---------|-----------|------------------|-------------------|-------------------|---------------|----------------|-----------|
| RF (MHz)        | Modulation | RF Rate | RF Offset | Power Low (Freq) | Power High (Freq) | Power High (Freq) | Turn-on (sec) | Turn-off (sec) | APRS (dB) |
| Channel         |            |         |           |                  |                   |                   |               |                |           |
| Frequency (MHz) |            |         |           |                  |                   |                   |               |                |           |
| 20              | QPSK       | 1       | 0         | 17.35            | 17.39             | 17.45             |               |                |           |
| 20              | QPSK       | 1       | 40        | 17.38            | 17.39             | 17.52             | 18.7          | 0              |           |
| 20              | QPSK       | 1       | 50        | 17.48            | 17.46             | 17.52             |               |                |           |
| 20              | QPSK       | 50      | 0         | 17.46            | 17.48             | 17.44             |               |                |           |
| 20              | QPSK       | 50      | 24        | 17.50            | 17.48             | 17.50             | 18.7          | 0              |           |
| 20              | QPSK       | 50      | 50        | 17.52            | 17.48             | 17.50             | 18.7          | 0              |           |
| 20              | QPSK       | 100     | 0         | 17.51            | 17.45             | 17.48             |               |                |           |
| 20              | HQAM       | 1       | 0         | 17.23            | 17.40             | 17.41             |               |                |           |
| 20              | HQAM       | 1       | 40        | 17.47            | 17.46             | 17.48             | 18.7          | 0              |           |
| 20              | HQAM       | 1       | 40        | 17.46            | 17.46             | 17.48             | 18.7          | 0              |           |
| 20              | HQAM       | 50      | 0         | 17.43            | 17.44             | 17.51             |               |                |           |
| 20              | HQAM       | 50      | 24        | 17.52            | 17.47             | 17.47             | 18.7          | 0              |           |
| 20              | HQAM       | 50      | 50        | 17.48            | 17.47             | 17.54             | 18.7          | 0              |           |
| 20              | HQAM       | 100     | 0         | 17.46            | 17.46             | 17.48             |               |                |           |
| 20              | ZSOGAM     | 1       | 0         | 17.35            | 17.46             | 17.46             |               |                |           |
| 20              | ZSOGAM     | 1       | 40        | 17.48            | 17.47             | 17.54             | 18.7          | 0              |           |
| 20              | ZSOGAM     | 1       | 50        | 17.47            | 17.46             | 17.52             | 18.7          | 0              |           |
| 20              | ZSOGAM     | 50      | 0         | 17.35            | 17.50             | 17.46             |               |                |           |
| 20              | ZSOGAM     | 100     | 0         | 17.45            | 17.38             | 17.38             |               |                |           |
| Channel         |            |         |           |                  |                   |                   |               |                |           |
| Frequency (MHz) |            |         |           |                  |                   |                   |               |                |           |
| 15              | QPSK       | 1       | 0         | 17.40            | 17.38             | 17.53             |               |                |           |
| 15              | QPSK       | 1       | 37        | 17.38            | 17.43             | 17.44             | 18.7          | 0              |           |
| 15              | QPSK       | 1       | 74        | 17.36            | 17.43             | 17.55             | 18.7          | 0              |           |
| 15              | QPSK       | 38      | 0         | 17.35            | 17.41             | 17.52             |               |                |           |
| 15              | QPSK       | 38      | 20        | 17.43            | 17.47             | 17.47             | 18.7          | 0              |           |
| 15              | QPSK       | 38      | 50        | 17.48            | 17.50             | 17.50             | 18.7          | 0              |           |
| 15              | QPSK       | 1       | 50        | 17.50            | 17.49             | 17.47             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.13            | 17.36             | 17.38             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.40            | 17.41             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.42            | 17.38             | 17.58             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.44            | 17.43             | 17.45             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.53            | 17.44             | 17.56             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.46            | 17.46             | 17.55             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 50        | 17.50            | 17.46             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 0         | 17.35            | 17.47             | 17.51             |               |                |           |
| 15              | HQAM       | 1       | 37        | 17.46            | 17.47             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 1       | 74        | 17.48            | 17.45             | 17.51             | 18.7          | 0              |           |
| 15              | HQAM       | 38      | 0         | 17.37            | 17.38             | 17.54             |               |                |           |
| 15              | HQAM       | 38      | 20        | 17.52            | 17.57             | 17.54             | 18.7          | 0              |           |
| 15              | HQAM       |         |           |                  |                   |                   |               |                |           |



| Band 5_Ant 0      |            |            |              |                           |                            |                            |                          |             |  |  |  |
|-------------------|------------|------------|--------------|---------------------------|----------------------------|----------------------------|--------------------------|-------------|--|--|--|
| SV<br>(MHz)       | Modulation | RF<br>Band | RF<br>Offset | Power<br>Low<br>Ch./Freq. | Power<br>Main<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Turn-on<br>and<br>offset | APN<br>(dB) |  |  |  |
| Channel           |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz)   |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 20450 20525 20550 |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 10                | QPSK       | 1          | 0            | 22.68                     | 22.70                      | 22.68                      |                          |             |  |  |  |
| 10                | QPSK       | 1          | 25           | 22.68                     | 22.65                      | 22.63                      | 24                       | 0           |  |  |  |
| 10                | QPSK       | 1          | 40           | 22.70                     | 22.64                      | 22.57                      |                          |             |  |  |  |
| 10                | QPSK       | 25         | 0            | 22.67                     | 22.71                      | 22.68                      |                          |             |  |  |  |
| 10                | QPSK       | 25         | 12           | 22.64                     | 22.63                      | 22.60                      | 24                       | 0           |  |  |  |
| 10                | QPSK       | 25         | 25           | 22.68                     | 22.67                      | 22.73                      |                          |             |  |  |  |
| 10                | HQAM       | 1          | 0            | 22.72                     | 22.62                      | 22.55                      |                          |             |  |  |  |
| 10                | HQAM       | 25         | 0            | 22.64                     | 22.67                      | 22.63                      |                          |             |  |  |  |
| 10                | HQAM       | 25         | 12           | 22.60                     | 22.61                      | 22.67                      | 24                       | 0           |  |  |  |
| 10                | HQAM       | 25         | 25           | 22.74                     | 22.74                      | 22.72                      |                          |             |  |  |  |
| 10                | HQAM       | 50         | 0            | 22.70                     | 22.70                      | 22.74                      |                          |             |  |  |  |
| 10                | HQAM       | 1          | 0            | 22.65                     | 22.65                      | 22.59                      | 24                       | 0           |  |  |  |
| 10                | HQAM       | 1          | 25           | 22.66                     | 22.67                      | 22.64                      |                          |             |  |  |  |
| 10                | HQAM       | 25         | 0            | 22.70                     | 22.64                      | 22.73                      |                          |             |  |  |  |
| 10                | HQAM       | 25         | 12           | 21.98                     | 21.93                      | 21.41                      |                          |             |  |  |  |
| 10                | HQAM       | 25         | 12           | 21.41                     | 21.43                      | 21.40                      | 23                       | 1           |  |  |  |
| 10                | HQAM       | 25         | 25           | 21.46                     | 21.25                      | 21.71                      |                          |             |  |  |  |
| 10                | HQAM       | 50         | 0            | 21.46                     | 21.47                      | 21.58                      |                          |             |  |  |  |
| 10                | DSSSJM     | 1          | 0            | 19.80                     | 19.81                      | 19.85                      | 21                       | 3           |  |  |  |
| 10                | DSSSJM     | 1          | 25           | 19.78                     | 19.82                      | 19.85                      |                          |             |  |  |  |
| 10                | DSSSJM     | 1          | 40           | 19.74                     | 19.79                      | 19.78                      |                          |             |  |  |  |
| 10                | DSSSJM     | 25         | 0            | 19.78                     | 19.78                      | 19.79                      |                          |             |  |  |  |
| 10                | DSSSJM     | 25         | 12           | 19.82                     | 19.83                      | 19.71                      | 21                       | 3           |  |  |  |
| 10                | DSSSJM     | 25         | 25           | 19.77                     | 19.88                      | 19.75                      |                          |             |  |  |  |
| 10                | DSSSJM     | 50         | 0            | 19.80                     | 19.81                      | 19.76                      |                          |             |  |  |  |
| Channel           |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 20425 20525 20525 |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 20425 20525 20525 |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 5                 | QPSK       | 1          | 0            | 22.73                     | 22.51                      | 22.50                      |                          |             |  |  |  |
| 5                 | QPSK       | 1          | 12           | 22.68                     | 22.56                      | 22.56                      | 24                       | 0           |  |  |  |
| 5                 | QPSK       | 1          | 24           | 22.73                     | 22.61                      | 22.57                      |                          |             |  |  |  |
| 5                 | QPSK       | 12         | 7            | 22.67                     | 22.69                      | 22.73                      | 24                       | 0           |  |  |  |
| 5                 | QPSK       | 12         | 13           | 22.48                     | 22.34                      | 22.55                      |                          |             |  |  |  |
| 5                 | HQAM       | 1          | 0            | 22.69                     | 22.63                      | 22.65                      | 24                       | 0           |  |  |  |
| 5                 | HQAM       | 1          | 12           | 22.61                     | 22.64                      | 22.61                      | 24                       | 0           |  |  |  |
| 5                 | HQAM       | 24         | 22.68        | 22.65                     | 22.59                      |                            |                          |             |  |  |  |
| 5                 | HQAM       | 12         | 7            | 22.60                     | 22.76                      | 22.62                      |                          |             |  |  |  |
| 5                 | HQAM       | 12         | 13           | 22.63                     | 22.75                      | 22.61                      | 24                       | 0           |  |  |  |
| 5                 | HQAM       | 24         | 22.68        | 22.65                     | 22.59                      |                            |                          |             |  |  |  |
| 5                 | HQAM       | 1          | 0            | 22.60                     | 22.62                      | 22.55                      |                          |             |  |  |  |
| 5                 | HQAM       | 1          | 12           | 22.64                     | 22.66                      | 22.77                      | 24                       | 0           |  |  |  |
| 5                 | HQAM       | 24         | 22.68        | 22.65                     | 22.59                      |                            |                          |             |  |  |  |
| 5                 | HQAM       | 12         | 0            | 21.17                     | 21.06                      | 21.40                      |                          |             |  |  |  |
| 5                 | HQAM       | 12         | 7            | 21.20                     | 21.20                      | 21.16                      | 23                       | 1           |  |  |  |
| 5                 | HQAM       | 12         | 13           | 21.26                     | 21.27                      | 21.48                      |                          |             |  |  |  |
| 5                 | HQAM       | 24         | 21.20        | 21.01                     | 21.30                      |                            |                          |             |  |  |  |
| 5                 | DSSSJM     | 1          | 0            | 19.75                     | 19.67                      | 19.82                      | 21                       | 3           |  |  |  |
| 5                 | DSSSJM     | 1          | 12           | 19.60                     | 19.64                      | 19.57                      |                          |             |  |  |  |
| 5                 | DSSSJM     | 1          | 24           | 19.67                     | 19.63                      | 19.65                      |                          |             |  |  |  |
| 5                 | DSSSJM     | 12         | 0            | 19.75                     | 19.63                      | 19.68                      |                          |             |  |  |  |
| 5                 | DSSSJM     | 12         | 7            | 19.75                     | 19.61                      | 19.65                      | 21                       | 3           |  |  |  |
| 5                 | DSSSJM     | 12         | 13           | 19.75                     | 19.63                      | 19.72                      |                          |             |  |  |  |
| 5                 | DSSSJM     | 24         | 0            | 19.64                     | 19.69                      | 19.73                      |                          |             |  |  |  |
| Channel           |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 20415 20525 20535 |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 20415 20525 20535 |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 3                 | QPSK       | 1          | 0            | 22.63                     | 22.61                      | 22.62                      |                          |             |  |  |  |
| 3                 | QPSK       | 1          | 8            | 22.67                     | 22.69                      | 22.67                      | 24                       | 0           |  |  |  |
| 3                 | QPSK       | 1          | 14           | 22.59                     | 22.69                      | 22.68                      |                          |             |  |  |  |
| 3                 | QPSK       | 8          | 0            | 22.68                     | 22.71                      | 22.46                      |                          |             |  |  |  |
| 3                 | QPSK       | 8          | 8            | 22.68                     | 22.63                      | 22.56                      | 24                       | 0           |  |  |  |
| 3                 | QPSK       | 8          | 7            | 22.63                     | 22.46                      | 22.54                      |                          |             |  |  |  |
| 3                 | QPSK       | 16         | 0            | 22.63                     | 22.65                      | 22.54                      |                          |             |  |  |  |
| 3                 | HQAM       | 1          | 0            | 22.58                     | 22.76                      | 22.60                      |                          |             |  |  |  |
| 3                 | HQAM       | 1          | 8            | 22.62                     | 22.60                      | 22.56                      | 24                       | 0           |  |  |  |
| 3                 | HQAM       | 1          | 14           | 22.60                     | 22.65                      | 22.61                      |                          |             |  |  |  |
| 3                 | HQAM       | 8          | 0            | 22.63                     | 22.63                      | 22.59                      |                          |             |  |  |  |
| 3                 | HQAM       | 8          | 4            | 22.67                     | 22.63                      | 22.57                      | 24                       | 0           |  |  |  |
| 3                 | HQAM       | 8          | 7            | 22.60                     | 22.57                      | 22.74                      |                          |             |  |  |  |
| 3                 | HQAM       | 16         | 0            | 21.20                     | 21.26                      | 21.28                      |                          |             |  |  |  |
| 3                 | HQAM       | 16         | 0            | 21.26                     | 21.26                      | 21.28                      |                          |             |  |  |  |
| 3                 | HQAM       | 16         | 8            | 21.24                     | 21.47                      | 21.27                      | 23                       | 1           |  |  |  |
| 3                 | HQAM       | 16         | 7            | 21.25                     | 21.36                      | 21.88                      |                          |             |  |  |  |
| 3                 | HQAM       | 16         | 0            | 21.26                     | 21.41                      | 21.30                      |                          |             |  |  |  |
| 3                 | DSSSJM     | 1          | 0            | 19.60                     | 19.62                      | 19.68                      | 21                       | 3           |  |  |  |
| 3                 | DSSSJM     | 1          | 8            | 19.65                     | 19.65                      | 19.30                      |                          |             |  |  |  |
| 3                 | DSSSJM     | 1          | 14           | 19.61                     | 19.64                      | 19.67                      |                          |             |  |  |  |
| 3                 | DSSSJM     | 8          | 0            | 19.63                     | 19.73                      | 19.75                      | 21                       | 3           |  |  |  |
| 3                 | DSSSJM     | 8          | 4            | 19.67                     | 19.73                      | 19.65                      |                          |             |  |  |  |
| 3                 | DSSSJM     | 8          | 7            | 19.72                     | 19.61                      | 19.65                      |                          |             |  |  |  |
| 3                 | DSSSJM     | 16         | 0            | 19.70                     | 19.67                      | 19.68                      |                          |             |  |  |  |
| Channel           |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 20407 20525 20563 |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 20407 20525 20563 |            |            |              |                           |                            |                            |                          |             |  |  |  |
| 1.4               | QPSK       | 1          | 0            | 22.63                     | 22.56                      | 22.52                      |                          |             |  |  |  |
| 1.4               | QPSK       | 1          | 3            | 22.67                     | 22.63                      | 22.62                      | 24                       | 0           |  |  |  |
| 1.4               | QPSK       | 1          | 5            | 22.70                     | 22.63                      | 22.64                      |                          |             |  |  |  |
| 1.4               | QPSK       | 3          | 0            | 22.68                     | 22.55                      | 22.75                      |                          |             |  |  |  |
| 1.4               | QPSK       | 3          | 1            | 22.68                     | 22.58                      | 22.61                      |                          |             |  |  |  |
| 1.4               | QPSK       | 3          | 3            | 22.59                     | 22.62                      | 22.70                      | 24                       | 0           |  |  |  |
| 1.4               | QPSK       | 6          | 0            | 22.63                     | 22.75                      | 22.75                      | 24                       | 0           |  |  |  |
| 1.4               | HQAM       | 1          | 0            | 22.67                     | 22.74                      | 22.51                      |                          |             |  |  |  |
| 1.4               | HQAM       | 1          | 5            | 22.58                     | 22.69                      | 22.75                      | 24                       | 0           |  |  |  |
| 1.4               | HQAM       | 3          | 0            | 22.63                     | 22.55                      | 22.59                      |                          |             |  |  |  |
| 1.4               | HQAM       | 3          | 3            | 22.53                     | 22.66                      | 22.79                      |                          |             |  |  |  |
| 1.4               | HQAM       | 6          | 0            | 22.78                     | 22.46                      | 22.75                      | 24                       | 0           |  |  |  |
| 1.4               | HQAM       | 6          | 0            | 22.70                     | 22.64                      | 22.62                      |                          |             |  |  |  |
| 1.4               | HQAM       | 6          | 3            | 22.29                     | 22.63                      | 22.61                      |                          |             |  |  |  |
| 1.4               | HQAM       | 1          | 5            | 22.34                     | 22.72                      | 22.61                      | 24                       | 0           |  |  |  |
| 1.4               | HQAM       | 1          | 0            | 22.67                     | 22.61                      | 22.47                      |                          |             |  |  |  |
| 1.4               | HQAM       | 3          | 1            | 22.47                     | 22.62                      | 22.25                      |                          |             |  |  |  |
| 1.4               | HQAM       | 3          | 3            | 22.57                     | 22.26                      | 22.63                      |                          |             |  |  |  |
| 1.4               | HQAM       | 6          | 0            | 21.68                     | 21.53                      | 21.65                      | 23                       | 1           |  |  |  |
| 1.4               | DSSSJM     | 1          | 0            | 19.62                     | 19.66                      | 19.64                      | 21                       | 3           |  |  |  |
| 1.4               | DSSSJM     | 1          | 3            | 19.70                     | 19.79                      | 19.78                      |                          |             |  |  |  |
| 1.4               | DSSSJM     | 1          | 5            | 19.73                     | 19.66                      | 19.73                      |                          |             |  |  |  |
| 1.4               | DSSSJM     | 3          | 0            | 19.67                     | 19.67                      | 19.66                      |                          |             |  |  |  |
| 1.4               | DSSSJM     | 3          | 1            | 19.72                     | 19.75                      | 19.69                      |                          |             |  |  |  |
| 1.4               | DSSSJM     | 3          | 3            | 19.75                     | 19.75                      | 19.66                      |                          |             |  |  |  |
| 1.4               | DSSSJM     | 6          | 0            | 19.76                     | 19.79                      | 19.75                      | 21                       | 3           |  |  |  |

| Band 5_Ant 1    |            |            |              |                           |                            |                            |                          |             |  |  |  |
|-----------------|------------|------------|--------------|---------------------------|----------------------------|----------------------------|--------------------------|-------------|--|--|--|
| SV<br>(MHz)     | Modulation | RF<br>Band | RF<br>Offset | Power<br>Low<br>Ch./Freq. | Power<br>Main<br>Ch./Freq. | Power<br>High<br>Ch./Freq. | Turn-on<br>and<br>offset | APN<br>(dB) |  |  |  |
| Channel         |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz) |            |            |              | 20450                     | 20525                      | 20550                      |                          |             |  |  |  |
| 10              | QPSK       | 1          | 0            | 82.0                      | 80.5                       | 80.4                       |                          |             |  |  |  |
| 10              | QPSK       | 1          | 0            | 22.64                     | 22.72                      | 22.77                      |                          |             |  |  |  |
| 10              | QPSK       | 1          | 25           | 22.63                     | 22.64                      | 22.67                      | 24                       | 0           |  |  |  |
| 10              | QPSK       | 1          | 40           | 22.66                     | 22.61                      | 22.62                      |                          |             |  |  |  |
| 10              | QPSK       | 25         | 0            | 22.70                     | 22.70                      | 22.74                      |                          |             |  |  |  |
| 10              | QPSK       | 25         | 12           | 22.60                     | 22.62                      | 22.64                      | 24                       | 0           |  |  |  |
| 10              | QPSK       | 25         | 25           | 22.73                     | 22.78                      | 22.77                      |                          |             |  |  |  |
| 10              | QPSK       | 50         | 0            | 22.77                     | 22.69                      | 22.61                      |                          |             |  |  |  |
| 10              | HQAM       | 1          | 0            | 22.65                     | 22.67                      | 22.67                      |                          |             |  |  |  |
| 10              | HQAM       | 1          | 25           | 22.73                     | 22.76                      | 22.77                      | 24                       | 0           |  |  |  |
| 10              | HQAM       | 25         | 40           | 22.70                     | 22.62                      | 22.55                      |                          |             |  |  |  |
| 10              | HQAM       | 25         | 0            | 22.60                     | 22.61                      | 22.64                      | 24                       | 0           |  |  |  |
| 10              | HQAM       | 25         | 12           | 22.58                     | 22.66                      | 22.62                      |                          |             |  |  |  |
| 10              | HQAM       | 25         | 25           | 22.70                     | 22.74                      | 22.73                      |                          |             |  |  |  |
| 10              | HQAM       | 50         | 0            | 22.71                     | 22.69                      | 22.63                      |                          |             |  |  |  |
| 10              | HQAM       | 50         | 0            | 22.46                     | 22.41                      | 22.40                      |                          |             |  |  |  |
| 10              | HQAM       | 50         | 25           | 22.62                     | 22.64                      | 22.64                      | 24                       | 0           |  |  |  |
| 10              | HQAM       | 50         | 25           | 22.32                     | 22.32                      | 22.40                      |                          |             |  |  |  |
| 10              | HQAM       | 50         | 0            | 22.53                     | 22.34                      | 22.40                      |                          |             |  |  |  |
| 10              | HQAM       | 1          | 0            | 22.63                     | 22.77                      | 22.60                      |                          |             |  |  |  |
| 10              | HQAM       | 1          | 25           | 22.71                     | 22.74                      | 22.74                      | 24                       | 0           |  |  |  |
| 10              | HQAM       | 1          | 40           | 22.68                     | 22.62                      | 22.62                      |                          |             |  |  |  |
| 10              | HQAM       | 1          | 40           | 22.36                     | 22.42                      | 22.73                      |                          |             |  |  |  |
| 10              | HQAM       | 25         | 0            | 22.62                     | 22.67                      | 22.38                      |                          |             |  |  |  |
| 10              | HQAM       | 25         | 12           | 22.59                     | 22.67                      | 22.70                      |                          |             |  |  |  |
| 10              | HQAM       | 25         | 25           | 22.70                     | 22.74                      | 22.73                      |                          |             |  |  |  |
| 10              | HQAM       | 50         | 0            | 22.71                     | 22.69                      | 22.63                      |                          |             |  |  |  |
| 10              | HQAM       | 50         | 0            | 22.19                     | 22.18                      | 22.18                      |                          |             |  |  |  |
| 10              | HQAM       | 1          | 0            | 19.76                     | 19.88                      | 19.74                      |                          |             |  |  |  |
| 10              | HQAM       | 1          | 25           | 19.77                     | 19.86                      | 19.89                      | 21                       | 3           |  |  |  |
| 10              | HQAM       | 1          | 40           | 19.80                     | 19.85                      | 19.85                      |                          |             |  |  |  |
| 10              | HQAM       | 1          | 40           | 19.87                     | 19.95                      | 19.92                      |                          |             |  |  |  |
| 10              | HQAM       | 25         | 0            | 19.76                     | 19.76                      | 19.74                      |                          |             |  |  |  |
| 10              | HQAM       | 25         | 12           | 19.77                     | 19.82                      | 19.82                      |                          |             |  |  |  |
| 10              | HQAM       | 25         | 25           | 19.80                     | 19.84                      | 19.84                      |                          |             |  |  |  |
| 10              | HQAM       | 50         | 0            | 19.83                     | 19.93                      | 19.81                      |                          |             |  |  |  |
| Channel         |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz) |            |            |              | 820.5                     | 800.5                      | 800.5                      | Turn-on<br>and<br>offset | APN<br>(dB) |  |  |  |
| 5               | QPSK       | 1          | 0            | 22.37                     | 22.37                      | 22.37                      |                          |             |  |  |  |
| 5               | QPSK       | 1          | 12           | 22.77                     | 22.82                      | 22.70                      | 24                       | 0           |  |  |  |
| 5               | QPSK       | 1          | 25           | 22.73                     | 22.75                      | 22.69                      |                          |             |  |  |  |
| 5               | QPSK       | 12         | 0            | 22.36                     | 22.36                      | 22.48                      |                          |             |  |  |  |
| 5               | QPSK       | 12         | 7            | 22.84                     | 22.74                      | 22.70                      |                          |             |  |  |  |
| 5               | QPSK       | 12         | 13           | 22.55                     | 22.56                      | 22.71                      |                          |             |  |  |  |
| 5               | QPSK       | 12         | 13           | 22.55                     | 22.56                      | 22.71                      |                          |             |  |  |  |
| 5               | HQAM       | 1          | 0            | 22.81                     | 22.53                      | 22.65                      |                          |             |  |  |  |
| 5               | HQAM       | 1          | 12           | 22.72                     | 22.65                      | 22.74                      |                          |             |  |  |  |
| 5               | HQAM       | 1          | 25           | 22.77                     | 22.77                      | 22.77                      | 24                       | 0           |  |  |  |
| 5               | HQAM       | 12         | 0            | 22.21                     | 22.37                      | 22.45                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 7            | 22.38                     | 22.38                      | 22.35                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 13           | 22.38                     | 22.37                      | 22.40                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 13           | 22.40                     | 22.40                      | 22.47                      |                          |             |  |  |  |
| 5               | HQAM       | 1          | 0            | 22.36                     | 22.79                      | 22.42                      |                          |             |  |  |  |
| 5               | HQAM       | 1          | 12           | 22.72                     | 22.63                      | 22.68                      |                          |             |  |  |  |
| 5               | HQAM       | 1          | 25           | 22.77                     | 22.77                      | 22.77                      | 24                       | 0           |  |  |  |
| 5               | HQAM       | 12         | 0            | 21.90                     | 22.04                      | 22.40                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 7            | 22.13                     | 22.10                      | 21.94                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 13           | 22.19                     | 22.23                      | 22.17                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 13           | 22.19                     | 22.19                      | 22.14                      |                          |             |  |  |  |
| 5               | HQAM       | 1          | 0            | 19.87                     | 19.91                      | 19.86                      |                          |             |  |  |  |
| 5               | HQAM       | 1          | 12           | 19.87                     | 19.90                      | 19.90                      | 21                       | 3           |  |  |  |
| 5               | HQAM       | 1          | 25           | 19.90                     | 19.90                      | 19.90                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 0            | 19.76                     | 19.76                      | 19.86                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 7            | 19.76                     | 19.82                      | 19.83                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 13           | 19.76                     | 19.82                      | 19.79                      |                          |             |  |  |  |
| 5               | HQAM       | 12         | 13           | 19.77                     | 19.82                      | 19.71                      |                          |             |  |  |  |
| Channel         |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz) |            |            |              | 820.5                     | 800.5                      | 800.5                      | Turn-on<br>and<br>offset | APN<br>(dB) |  |  |  |
| 3               | QPSK       | 1          | 0            | 22.56                     | 22.72                      | 22.75                      |                          |             |  |  |  |
| 3               | QPSK       | 1          | 25           | 22.72                     | 22.72                      | 22.72                      | 24                       | 0           |  |  |  |
| 3               | QPSK       | 1          | 14           | 22.87                     | 22.80                      | 22.60                      |                          |             |  |  |  |
| 3               | QPSK       | 8          | 0            | 22.52                     | 22.64                      | 22.63                      |                          |             |  |  |  |
| 3               | QPSK       | 8          | 7            | 22.78                     | 22.78                      | 22.78                      | 24                       | 0           |  |  |  |
| 3               | QPSK       | 8          | 7            | 22.89                     | 22.98                      | 22.74                      |                          |             |  |  |  |
| 3               | QPSK       | 15         | 0            | 22.55                     | 22.63                      | 22.63                      |                          |             |  |  |  |
| 3               | QPSK       | 15         | 0            | 22.55                     | 22.63                      | 22.63                      |                          |             |  |  |  |
| 3               | HQAM       | 1          | 8            | 22.51                     | 22.49                      | 22.83                      | 24                       | 0           |  |  |  |
| 3               | HQAM       | 1          | 14           | 22.52                     | 22.84                      | 22.89                      |                          |             |  |  |  |
| 3               | HQAM       | 8          | 0            | 22.27                     | 22.26                      | 22.18                      |                          |             |  |  |  |
| 3               | HQAM       | 8          | 7            | 22.43                     | 22.43                      | 22.40                      |                          |             |  |  |  |
| 3               | HQAM       | 15         | 0            | 22.42                     | 22.23                      | 22.20                      |                          |             |  |  |  |
| 3               | HQAM       | 15         | 0            | 22.42                     | 22.23                      | 22.20                      |                          |             |  |  |  |
| 3               | HQAM       | 1          | 8            | 22.84                     | 22.83                      | 22.70                      |                          |             |  |  |  |
| 3               | HQAM       | 1          | 14           | 22.33                     | 22.38                      | 22.81                      |                          |             |  |  |  |
| 3               | HQAM       | 8          | 0            | 21.82                     | 21.75                      | 22.01                      |                          |             |  |  |  |
| 3               | HQAM       | 8          | 7            | 22.85                     | 22.92                      | 22.80                      | 24                       | 0           |  |  |  |
| 3               | HQAM       | 8          | 7            | 22.12                     | 22.25                      | 22.07                      |                          |             |  |  |  |
| 3               | HQAM       | 15         | 0            | 22.09                     | 22.17                      | 21.99                      |                          |             |  |  |  |
| 3               | HQAM       | 15         | 0            | 22.09                     | 22.17                      | 21.99                      |                          |             |  |  |  |
| 3               | HQAM       | 1          | 8            | 19.90                     | 19.91                      | 19.90                      | 21                       | 3           |  |  |  |
| 3               | HQAM       | 1          | 14           | 19.76                     | 19.91                      | 19.86                      |                          |             |  |  |  |
| 3               | HQAM       | 8          | 0            | 19.76                     | 19.76                      | 19.76                      |                          |             |  |  |  |
| 3               | HQAM       | 8          | 7            | 19.77                     | 19.82                      | 19.84                      | 21                       | 3           |  |  |  |
| 3               | HQAM       | 15         | 0            | 19.80                     | 19.88                      | 19.83                      |                          |             |  |  |  |
| 3               | HQAM       | 15         | 0            | 19.81                     | 19.84                      | 19.77                      |                          |             |  |  |  |
| Channel         |            |            |              |                           |                            |                            |                          |             |  |  |  |
| Frequency (MHz) |            |            |              | 824.7                     | 800.5                      | 804.3                      | Turn-on<br>and<br>offset | APN<br>(dB) |  |  |  |
| 1.4             | QPSK       | 1          | 0            | 22.70                     | 22.60                      | 22.80                      |                          |             |  |  |  |
| 1.4             | QPSK       | 1          | 3            | 22.64                     | 22.89                      | 22.30                      | 24                       | 0           |  |  |  |
| 1.4             | QPSK       | 1          | 3            | 22.57                     | 22.73                      | 22.67                      |                          |             |  |  |  |
| 1.4             | QPSK       | 1          | 22           | 22.78                     | 22.67                      | 22.78                      |                          |             |  |  |  |
| 1.4             | QPSK       | 3          | 1            | 22.76                     | 22.87                      | 22.80                      |                          |             |  |  |  |
| 1.4             | QPSK       | 3          | 1            | 22.76                     | 22.87                      | 22.80                      |                          |             |  |  |  |
| 1.4             | QPSK       | 6          | 0            | 22.73                     | 22.86                      | 22.72                      | 24                       | 0           |  |  |  |
| 1.4             | QPSK       | 6          | 0            | 22.73                     | 22.86                      | 22.72                      |                          |             |  |  |  |
| 1.4             | HQAM       | 1          | 0            | 22.70                     | 22.46                      | 22.80                      |                          |             |  |  |  |
| 1.4             | HQAM       | 1          | 3            | 22.42                     | 22.51                      | 22.76                      |                          |             |  |  |  |
| 1.4             | HQAM       | 1          | 22           | 22.75                     | 22.78                      | 22.78                      | 24                       | 0           |  |  |  |
| 1.4             | HQAM       | 3          | 0            | 22.13                     | 22.44                      | 22.22                      |                          |             |  |  |  |
| 1.4             | HQAM       | 3          | 1            | 22.31                     | 22.60                      | 22.50                      |                          |             |  |  |  |
| 1.4             | HQAM       | 6          | 0            | 22.31                     | 22.31                      | 22.31                      |                          |             |  |  |  |
| 1.4             | HQAM       | 6          | 0            | 22.44                     | 22.14                      | 22.94                      | 24                       | 0           |  |  |  |
| 1.4             | HQAM       | 1          | 0            | 22.50                     | 22.27                      | 22.63                      |                          |             |  |  |  |
| 1.4             | HQAM       | 1          | 3            | 22.71                     | 22.66                      | 22.67                      |                          |             |  |  |  |
| 1.4             | HQAM       | 1          | 22           | 22.50                     | 22.54                      | 22.50                      |                          |             |  |  |  |
| 1.4             | HQAM       | 3          | 0            | 22.83                     | 22.80                      | 22.83                      |                          |             |  |  |  |
| 1.4             | HQAM       | 3          | 1            | 22.73                     | 22.77                      | 22.73                      |                          |             |  |  |  |
| 1.4             | HQAM       | 6          | 0            | 21.90                     | 22.16                      | 22.23                      | 23                       | 1           |  |  |  |
| 1.4             | HQAM       | 6          | 0            | 19.72                     | 19.82                      | 19.84                      |                          |             |  |  |  |
| 1.4             | HQAM       | 6          | 0            | 19.72                     | 19.82                      | 19.84                      |                          |             |  |  |  |
| 1.4             | HQAM       | 3          | 1            | 19.76                     | 19.91                      | 19.90                      | 21                       | 3           |  |  |  |
| 1.4             | HQAM       | 3          | 0            | 19.76                     | 19.74                      | 19.68                      |                          |             |  |  |  |
| 1.4             | HQAM       | 3          | 1            | 19.82                     | 19.82                      | 19.72                      |                          |             |  |  |  |
| 1.4             | HQAM       | 6          | 0            | 19.77                     | 19.77                      | 19.77                      |                          |             |  |  |  |
| 1.4             | HQAM       | 6          | 0            | 19.74                     | 19.84                      | 19.81                      | 21                       | 3           |  |  |  |

| Band 12_Ant 0     |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
|-------------------|------------|---------|-----------|---------------------|----------------------|----------------------|-------------------|----------|--|--|--|--|--|--|
| DV (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power High Ch./Freq. | Power High Ch./Freq. | Turn-up and (dBm) | MVR (dB) |  |  |  |  |  |  |
| Channel           |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| 23050 23055 23155 |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| 10                | QPSK       | 1       | 0         | 22.54               | 23.04                | 23.10                | 24                | 0        |  |  |  |  |  |  |
| 10                | QPSK       | 1       | 25        | 23.12               | 23.25                | 23.20                |                   |          |  |  |  |  |  |  |
| 10                | QPSK       | 1       | 49        | 23.28               | 23.18                | 23.10                |                   |          |  |  |  |  |  |  |
| 10                | QPSK       | 25      | 0         | 23.02               | 22.98                | 22.80                |                   |          |  |  |  |  |  |  |
| 10                | QPSK       | 25      | 12        | 23.10               | 23.24                | 23.14                | 24                | 0        |  |  |  |  |  |  |
| 10                | QPSK       | 25      | 25        | 22.95               | 23.09                | 23.08                |                   |          |  |  |  |  |  |  |
| 10                | QPSK       | 35      | 0         | 23.02               | 23.21                | 23.09                |                   |          |  |  |  |  |  |  |
| 10                | HQAM       | 1       | 0         | 23.12               | 23.13                | 23.13                |                   |          |  |  |  |  |  |  |
| 10                | HQAM       | 1       | 25        | 22.87               | 23.14                | 23.00                | 24                | 0        |  |  |  |  |  |  |
| 10                | HQAM       | 1       | 49        | 23.04               | 23.04                | 23.04                |                   |          |  |  |  |  |  |  |
| 10                | HQAM       | 35      | 0         | 23.02               | 23.16                | 23.12                |                   |          |  |  |  |  |  |  |
| 10                | HQAM       | 25      | 12        | 22.74               | 23.01                | 23.15                |                   |          |  |  |  |  |  |  |
| 10                | HQAM       | 25      | 25        | 22.98               | 23.00                | 23.10                | 23                | 1        |  |  |  |  |  |  |
| 10                | HQAM       | 35      | 0         | 21.96               | 21.88                | 21.57                |                   |          |  |  |  |  |  |  |
| 10                | HQAM       | 25      | 12        | 21.51               | 21.52                | 21.79                |                   |          |  |  |  |  |  |  |
| 10                | HQAM       | 50      | 0         | 21.55               | 21.82                | 21.76                |                   |          |  |  |  |  |  |  |
| 10                | ZSSBAM     | 1       | 0         | 19.87               | 19.88                | 19.87                | 21                | 3        |  |  |  |  |  |  |
| 10                | ZSSBAM     | 25      | 0         | 21.45               | 21.54                | 21.45                |                   |          |  |  |  |  |  |  |
| 10                | ZSSBAM     | 1       | 49        | 19.89               | 20.10                | 19.97                |                   |          |  |  |  |  |  |  |
| 10                | ZSSBAM     | 25      | 0         | 19.58               | 19.82                | 19.57                |                   |          |  |  |  |  |  |  |
| 10                | ZSSBAM     | 25      | 12        | 20.07               | 20.04                | 20.08                | 21                | 3        |  |  |  |  |  |  |
| 10                | ZSSBAM     | 25      | 25        | 20.06               | 20.07                | 19.96                |                   |          |  |  |  |  |  |  |
| 10                | ZSSBAM     | 50      | 0         | 19.69               | 19.94                | 19.84                |                   |          |  |  |  |  |  |  |
| Channel           |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| 23055 23055 23155 |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| 5                 | QPSK       | 1       | 0         | 23.01               | 23.05                | 23.04                | 24                | 0        |  |  |  |  |  |  |
| 5                 | QPSK       | 1       | 12        | 23.06               | 23.02                | 23.03                |                   |          |  |  |  |  |  |  |
| 5                 | QPSK       | 1       | 24        | 23.04               | 23.23                | 22.89                |                   |          |  |  |  |  |  |  |
| 5                 | QPSK       | 12      | 0         | 22.95               | 23.04                | 23.03                |                   |          |  |  |  |  |  |  |
| 5                 | QPSK       | 12      | 13        | 23.02               | 23.04                | 23.03                | 24                | 0        |  |  |  |  |  |  |
| 5                 | QPSK       | 24      | 0         | 22.98               | 23.24                | 23.07                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 1       | 0         | 22.89               | 22.91                | 23.02                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 1       | 12        | 22.92               | 22.89                | 23.74                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 24      | 0         | 22.97               | 23.05                | 22.83                | 24                | 0        |  |  |  |  |  |  |
| 5                 | HQAM       | 12      | 0         | 21.46               | 23.14                | 23.08                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 12      | 7         | 22.52               | 22.75                | 23.04                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 12      | 13        | 22.97               | 22.85                | 23.17                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 24      | 0         | 22.94               | 23.04                | 23.04                | 24                | 0        |  |  |  |  |  |  |
| 5                 | HQAM       | 1       | 0         | 22.72               | 22.86                | 23.05                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 1       | 12        | 23.03               | 23.09                | 23.02                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 12      | 0         | 21.52               | 21.74                | 21.57                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 12      | 7         | 21.50               | 21.52                | 21.79                | 23                | 1        |  |  |  |  |  |  |
| 5                 | HQAM       | 12      | 13        | 21.38               | 21.59                | 21.52                |                   |          |  |  |  |  |  |  |
| 5                 | HQAM       | 24      | 0         | 21.52               | 21.62                | 21.89                |                   |          |  |  |  |  |  |  |
| 5                 | ZSSBAM     | 1       | 0         | 19.86               | 19.76                | 19.85                |                   |          |  |  |  |  |  |  |
| 5                 | ZSSBAM     | 1       | 12        | 20.02               | 20.14                | 20.12                | 21                | 3        |  |  |  |  |  |  |
| 5                 | ZSSBAM     | 1       | 24        | 19.85               | 19.85                | 19.84                |                   |          |  |  |  |  |  |  |
| 5                 | ZSSBAM     | 12      | 0         | 19.51               | 19.87                | 19.87                |                   |          |  |  |  |  |  |  |
| 5                 | ZSSBAM     | 12      | 7         | 20.01               | 19.95                | 19.94                |                   |          |  |  |  |  |  |  |
| 5                 | ZSSBAM     | 12      | 13        | 19.87               | 19.87                | 19.87                | 21                | 3        |  |  |  |  |  |  |
| 5                 | ZSSBAM     | 25      | 0         | 19.82               | 19.95                | 19.87                |                   |          |  |  |  |  |  |  |
| 5                 | ZSSBAM     | 25      | 0         | 19.50               | 19.95                | 19.87                |                   |          |  |  |  |  |  |  |
| Channel           |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| 702.5 707.5 714.5 |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| 3                 | QPSK       | 1       | 0         | 22.67               | 22.67                | 22.67                | 24                | 0        |  |  |  |  |  |  |
| 3                 | QPSK       | 1       | 8         | 23.17               | 23.21                | 23.18                |                   |          |  |  |  |  |  |  |
| 3                 | QPSK       | 1       | 14        | 22.67               | 23.12                | 22.89                |                   |          |  |  |  |  |  |  |
| 3                 | QPSK       | 8       | 0         | 23.02               | 23.02                | 23.73                |                   |          |  |  |  |  |  |  |
| 3                 | QPSK       | 16      | 0         | 23.03               | 23.09                | 23.05                | 24                | 0        |  |  |  |  |  |  |
| 3                 | QPSK       | 8       | 7         | 22.78               | 22.83                | 23.02                |                   |          |  |  |  |  |  |  |
| 3                 | QPSK       | 16      | 0         | 23.05               | 23.11                | 23.08                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 1       | 8         | 23.01               | 23.02                | 23.14                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 1       | 8         | 22.82               | 23.21                | 23.09                | 24                | 0        |  |  |  |  |  |  |
| 3                 | HQAM       | 1       | 14        | 22.84               | 23.04                | 23.14                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 8       | 0         | 23.07               | 23.07                | 23.08                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 8       | 4         | 22.52               | 23.02                | 22.92                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 8       | 7         | 22.89               | 22.95                | 23.04                | 24                | 0        |  |  |  |  |  |  |
| 3                 | HQAM       | 16      | 0         | 22.97               | 23.02                | 23.07                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 16      | 0         | 22.76               | 22.89                | 23.02                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 1       | 8         | 22.94               | 23.11                | 23.15                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 1       | 14        | 22.93               | 22.86                | 22.91                | 24                | 0        |  |  |  |  |  |  |
| 3                 | HQAM       | 8       | 0         | 21.67               | 21.56                | 21.53                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 8       | 4         | 21.37               | 21.59                | 21.55                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 8       | 7         | 21.38               | 21.51                | 21.58                |                   |          |  |  |  |  |  |  |
| 3                 | HQAM       | 16      | 0         | 21.45               | 21.50                | 21.53                | 23                | 1        |  |  |  |  |  |  |
| 3                 | ZSSBAM     | 1       | 0         | 19.82               | 19.83                | 19.91                |                   |          |  |  |  |  |  |  |
| 3                 | ZSSBAM     | 1       | 8         | 19.50               | 20.12                | 20.10                |                   |          |  |  |  |  |  |  |
| 3                 | ZSSBAM     | 1       | 14        | 19.86               | 19.89                | 19.84                |                   |          |  |  |  |  |  |  |
| 3                 | ZSSBAM     | 8       | 0         | 19.56               | 19.85                | 19.85                | 21                | 3        |  |  |  |  |  |  |
| 3                 | ZSSBAM     | 8       | 4         | 19.94               | 20.03                | 19.94                |                   |          |  |  |  |  |  |  |
| 3                 | ZSSBAM     | 8       | 7         | 20.02               | 19.97                | 19.93                |                   |          |  |  |  |  |  |  |
| 3                 | ZSSBAM     | 16      | 0         | 19.84               | 19.95                | 19.86                |                   |          |  |  |  |  |  |  |
| Channel           |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| 22017 22055 22173 |            |         |           |                     |                      |                      |                   |          |  |  |  |  |  |  |
| 1.4               | QPSK       | 1       | 0         | 22.72               | 23.08                | 23.14                | 24                | 0        |  |  |  |  |  |  |
| 1.4               | QPSK       | 3       | 0         | 22.72               | 22.99                | 23.10                |                   |          |  |  |  |  |  |  |
| 1.4               | QPSK       | 1       | 5         | 22.82               | 23.13                | 23.08                |                   |          |  |  |  |  |  |  |
| 1.4               | QPSK       | 3       | 0         | 22.88               | 22.95                | 22.88                |                   |          |  |  |  |  |  |  |
| 1.4               | QPSK       | 3       | 0         | 22.94               | 22.97                | 23.12                | 24                | 0        |  |  |  |  |  |  |
| 1.4               | QPSK       | 3       | 0         | 22.85               | 23.19                | 22.84                |                   |          |  |  |  |  |  |  |
| 1.4               | QPSK       | 3       | 0         | 22.67               | 23.19                | 23.09                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 1       | 0         | 22.86               | 23.02                | 23.08                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 1       | 5         | 22.71               | 22.86                | 22.85                | 24                | 0        |  |  |  |  |  |  |
| 1.4               | HQAM       | 3       | 0         | 22.83               | 22.82                | 22.97                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 3       | 0         | 22.70               | 23.02                | 23.00                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 3       | 3         | 22.82               | 22.79                | 22.84                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 6       | 0         | 22.85               | 22.86                | 22.92                | 24                | 0        |  |  |  |  |  |  |
| 1.4               | HQAM       | 6       | 0         | 22.97               | 22.84                | 23.07                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 1       | 3         | 22.59               | 23.19                | 23.08                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 1       | 5         | 22.52               | 23.07                | 22.96                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 3       | 0         | 22.99               | 23.01                | 23.03                | 24                | 0        |  |  |  |  |  |  |
| 1.4               | HQAM       | 3       | 1         | 22.77               | 22.95                | 22.85                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 3       | 3         | 22.51               | 22.96                | 22.86                |                   |          |  |  |  |  |  |  |
| 1.4               | HQAM       | 6       | 0         | 21.29               | 21.45                | 21.72                |                   |          |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 1       | 0         | 19.87               | 19.84                | 19.87                | 21                | 3        |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 1       | 3         | 20.01               | 20.12                | 20.13                |                   |          |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 1       | 5         | 19.86               | 20.19                | 19.87                |                   |          |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 3       | 0         | 19.57               | 19.85                | 19.85                | 21                | 3        |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 3       | 1         | 19.96               | 19.92                | 19.98                |                   |          |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 3       | 3         | 19.84               | 20.06                | 19.98                |                   |          |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 6       | 0         | 19.57               | 19.86                | 19.86                |                   |          |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 6       | 0         | 19.57               | 19.86                | 19.86                |                   |          |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 6       | 0         | 19.57               | 19.86                | 19.86                |                   |          |  |  |  |  |  |  |
| 1.4               | ZSSBAM     | 6       | 0         | 19.57               | 19.86                | 19.86                |                   |          |  |  |  |  |  |  |



| Band 14_Ant 0   |            |         |           |                    |                     |                     |              |          |  |
|-----------------|------------|---------|-----------|--------------------|---------------------|---------------------|--------------|----------|--|
| DV (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq | Power High Ch. Freq | Power High Ch. Freq | Turn-up (dB) | MPN (dB) |  |
| Channel         |            |         |           |                    |                     |                     |              |          |  |
| 23335           |            |         |           |                    |                     |                     |              |          |  |
| Frequency (MHz) |            |         |           |                    |                     |                     |              |          |  |
| 10              | QPSK       | 1       | 0         | 22.85              |                     |                     |              |          |  |
| 10              | QPSK       | 1       | 25        | 22.82              |                     |                     | 24           | 0        |  |
| 10              | QPSK       | 1       | 49        | 22.71              |                     |                     |              |          |  |
| 10              | QPSK       | 25      | 0         | 22.80              |                     |                     |              |          |  |
| 10              | QPSK       | 25      | 12        | 22.80              |                     |                     | 24           | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.87              |                     |                     |              |          |  |
| 10              | QPSK       | 50      | 0         | 22.78              |                     |                     |              |          |  |
| 10              | HQAM       | 1       | 0         | 22.68              |                     |                     |              |          |  |
| 10              | HQAM       | 1       | 25        | 22.79              |                     |                     | 24           | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.03              |                     |                     |              |          |  |
| 10              | HQAM       | 25      | 0         | 22.36              |                     |                     |              |          |  |
| 10              | HQAM       | 25      | 12        | 22.77              |                     |                     | 24           | 0        |  |
| 10              | HQAM       | 25      | 25        | 22.74              |                     |                     |              |          |  |
| 10              | HQAM       | 50      | 0         | 22.50              |                     |                     |              |          |  |
| 10              | HQAM       | 1       | 0         | 22.71              |                     |                     |              |          |  |
| 10              | HQAM       | 1       | 25        | 22.72              |                     |                     | 24           | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.04              |                     |                     |              |          |  |
| 10              | HQAM       | 25      | 0         | 21.86              |                     |                     |              |          |  |
| 10              | HQAM       | 25      | 12        | 21.87              |                     |                     | 23           | 1        |  |
| 10              | HQAM       | 25      | 25        | 21.75              |                     |                     |              |          |  |
| 10              | HQAM       | 50      | 0         | 21.77              |                     |                     |              |          |  |
| 10              | DSSSFM     | 1       | 0         | 19.70              |                     |                     |              |          |  |
| 10              | DSSSFM     | 1       | 25        | 19.88              |                     |                     | 21           | 3        |  |
| 10              | DSSSFM     | 1       | 49        | 19.85              |                     |                     |              |          |  |
| 10              | DSSSFM     | 25      | 0         | 19.78              |                     |                     |              |          |  |
| 10              | DSSSFM     | 25      | 12        | 19.72              |                     |                     | 21           | 3        |  |
| 10              | DSSSFM     | 25      | 25        | 19.88              |                     |                     |              |          |  |
| 10              | DSSSFM     | 50      | 0         | 19.83              |                     |                     |              |          |  |
| Channel         |            |         |           |                    |                     |                     |              |          |  |
| 23355           |            |         |           |                    |                     |                     |              |          |  |
| 23355           |            |         |           |                    |                     |                     |              |          |  |
| Frequency (MHz) |            |         |           |                    |                     |                     |              |          |  |
| 5               | QPSK       | 1       | 0         | 22.40              | 22.66               | 22.90               |              |          |  |
| 5               | QPSK       | 1       | 12        | 22.75              | 22.66               | 22.81               | 24           | 0        |  |
| 5               | QPSK       | 1       | 24        | 22.67              | 22.68               | 22.44               |              |          |  |
| 5               | QPSK       | 12      | 0         | 22.64              | 22.32               | 22.80               |              |          |  |
| 5               | QPSK       | 12      | 7         | 22.80              | 22.80               | 22.77               | 24           | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.58              | 22.48               | 22.86               |              |          |  |
| 5               | QPSK       | 24      | 0         | 22.70              | 22.79               | 22.89               |              |          |  |
| 5               | HQAM       | 1       | 0         | 22.67              | 22.46               | 22.37               |              |          |  |
| 5               | HQAM       | 1       | 12        | 22.54              | 22.80               | 22.34               | 24           | 0        |  |
| 5               | HQAM       | 24      | 0         | 22.56              | 22.67               | 22.58               |              |          |  |
| 5               | HQAM       | 12      | 0         | 22.36              | 22.45               | 22.44               |              |          |  |
| 5               | HQAM       | 12      | 7         | 22.68              | 22.78               | 22.76               | 24           | 0        |  |
| 5               | HQAM       | 12      | 13        | 22.60              | 22.76               | 22.68               |              |          |  |
| 5               | HQAM       | 24      | 0         | 22.47              | 22.29               | 22.52               |              |          |  |
| 5               | HQAM       | 1       | 0         | 22.50              | 22.74               | 22.54               |              |          |  |
| 5               | HQAM       | 1       | 12        | 22.70              | 22.47               | 22.52               | 24           | 0        |  |
| 5               | HQAM       | 1       | 24        | 22.70              | 22.46               | 22.54               |              |          |  |
| 5               | HQAM       | 12      | 0         | 21.80              | 21.47               | 21.84               |              |          |  |
| 5               | HQAM       | 12      | 7         | 21.68              | 21.87               | 21.81               | 23           | 1        |  |
| 5               | HQAM       | 12      | 13        | 21.94              | 21.70               | 21.83               |              |          |  |
| 5               | HQAM       | 24      | 0         | 21.84              | 21.81               | 21.50               |              |          |  |
| 5               | DSSSFM     | 1       | 0         | 19.66              | 19.76               | 19.55               |              |          |  |
| 5               | DSSSFM     | 1       | 12        | 19.71              | 19.71               | 19.76               | 21           | 3        |  |
| 5               | DSSSFM     | 1       | 24        | 19.84              | 19.81               | 19.85               |              |          |  |
| 5               | DSSSFM     | 12      | 0         | 19.78              | 19.87               | 19.78               |              |          |  |
| 5               | DSSSFM     | 12      | 7         | 19.80              | 19.87               | 19.89               | 21           | 3        |  |
| 5               | DSSSFM     | 12      | 13        | 19.86              | 19.83               | 19.83               |              |          |  |
| 5               | DSSSFM     | 24      | 0         | 19.70              | 19.82               | 19.70               |              |          |  |

| Band 14_Ant 1     |            |         |           |                    |                     |                     |              |          |  |
|-------------------|------------|---------|-----------|--------------------|---------------------|---------------------|--------------|----------|--|
| DV (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. Freq | Power High Ch. Freq | Power High Ch. Freq | Turn-up (dB) | MPN (dB) |  |
| Channel           |            |         |           |                    |                     |                     |              |          |  |
| 23355             |            |         |           |                    |                     |                     |              |          |  |
| Frequency (MHz)   |            |         |           |                    |                     |                     |              |          |  |
| 10                | QPSK       | 1       | 0         | 22.45              |                     |                     |              |          |  |
| 10                | QPSK       | 1       | 25        | 22.52              |                     |                     | 24           | 0        |  |
| 10                | QPSK       | 1       | 49        | 22.47              |                     |                     |              |          |  |
| 10                | QPSK       | 25      | 0         | 22.39              |                     |                     |              |          |  |
| 10                | QPSK       | 25      | 12        | 22.50              |                     |                     | 24           | 0        |  |
| 10                | QPSK       | 25      | 25        | 22.42              |                     |                     |              |          |  |
| 10                | QPSK       | 50      | 0         | 22.47              |                     |                     |              |          |  |
| 10                | HQAM       | 1       | 0         | 20.46              |                     |                     |              |          |  |
| 10                | HQAM       | 1       | 25        | 22.35              |                     |                     | 24           | 0        |  |
| 10                | HQAM       | 1       | 49        | 22.02              |                     |                     |              |          |  |
| 10                | HQAM       | 25      | 0         | 22.21              |                     |                     |              |          |  |
| 10                | HQAM       | 25      | 12        | 22.29              |                     |                     | 24           | 0        |  |
| 10                | HQAM       | 25      | 25        | 22.28              |                     |                     |              |          |  |
| 10                | HQAM       | 50      | 0         | 22.47              |                     |                     |              |          |  |
| 10                | HQAM       | 1       | 0         | 22.30              |                     |                     |              |          |  |
| 10                | HQAM       | 1       | 25        | 22.28              |                     |                     | 24           | 0        |  |
| 10                | HQAM       | 1       | 49        | 22.06              |                     |                     |              |          |  |
| 10                | HQAM       | 25      | 0         | 20.04              |                     |                     |              |          |  |
| 10                | HQAM       | 25      | 12        | 21.97              |                     |                     | 23           | 1        |  |
| 10                | HQAM       | 25      | 25        | 21.50              |                     |                     |              |          |  |
| 10                | HQAM       | 50      | 0         | 22.14              |                     |                     |              |          |  |
| 10                | DSSSFM     | 1       | 0         | 19.74              |                     |                     |              |          |  |
| 10                | DSSSFM     | 1       | 25        | 19.83              |                     |                     | 21           | 3        |  |
| 10                | DSSSFM     | 1       | 49        | 19.89              |                     |                     |              |          |  |
| 10                | DSSSFM     | 25      | 0         | 19.75              |                     |                     |              |          |  |
| 10                | DSSSFM     | 25      | 12        | 19.88              |                     |                     | 21           | 3        |  |
| 10                | DSSSFM     | 25      | 25        | 19.79              |                     |                     |              |          |  |
| 10                | DSSSFM     | 50      | 0         | 19.79              |                     |                     |              |          |  |
| Channel           |            |         |           |                    |                     |                     |              |          |  |
| 23355 23355 23355 |            |         |           |                    |                     |                     |              |          |  |
| Frequency (MHz)   |            |         |           |                    |                     |                     |              |          |  |
| 5                 | QPSK       | 1       | 0         | 22.46              | 22.81               | 22.90               |              |          |  |
| 5                 | QPSK       | 1       | 12        | 22.61              | 22.42               | 22.43               | 24           | 0        |  |
| 5                 | QPSK       | 1       | 24        | 22.47              | 22.34               | 22.24               |              |          |  |
| 5                 | QPSK       | 12      | 0         | 22.42              | 22.23               | 22.45               |              |          |  |
| 5                 | QPSK       | 12      | 7         | 22.45              | 22.43               | 22.48               | 24           | 0        |  |
| 5                 | QPSK       | 12      | 13        | 22.28              | 22.39               | 22.47               |              |          |  |
| 5                 | QPSK       | 24      | 0         | 22.43              | 22.37               | 22.38               |              |          |  |
| 5                 | HQAM       | 1       | 0         | 22.32              | 22.43               | 22.48               |              |          |  |
| 5                 | HQAM       | 1       | 12        | 22.40              | 22.34               | 22.22               | 24           | 0        |  |
| 5                 | HQAM       | 24      | 0         | 22.26              | 22.40               | 22.29               |              |          |  |
| 5                 | HQAM       | 12      | 0         | 22.18              | 22.19               | 22.17               |              |          |  |
| 5                 | HQAM       | 12      | 7         | 22.08              | 22.09               | 22.35               | 24           | 0        |  |
| 5                 | HQAM       | 12      | 13        | 22.20              | 22.08               | 22.12               |              |          |  |
| 5                 | HQAM       | 24      | 0         | 22.30              | 22.45               | 22.25               |              |          |  |
| 5                 | HQAM       | 1       | 0         | 22.38              | 22.38               | 22.37               |              |          |  |
| 5                 | HQAM       | 1       | 12        | 22.12              | 22.05               | 22.22               | 24           | 0        |  |
| 5                 | HQAM       | 1       | 24        | 22.46              | 22.47               | 22.43               |              |          |  |
| 5                 | HQAM       | 12      | 0         | 22.08              | 21.99               | 21.87               |              |          |  |
| 5                 | HQAM       | 12      | 7         | 21.50              | 21.79               | 21.70               | 23           | 1        |  |
| 5                 | HQAM       | 12      | 13        | 21.84              | 21.70               | 21.80               |              |          |  |
| 5                 | HQAM       | 24      | 0         | 21.98              | 22.01               | 21.86               |              |          |  |
| 5                 | DSSSFM     | 1       | 0         | 19.72              | 19.59               | 19.55               |              |          |  |
| 5                 | DSSSFM     | 1       | 12        | 19.70              | 19.74               | 19.81               | 21           | 3        |  |
| 5                 | DSSSFM     | 1       | 24        | 19.80              | 19.70               | 19.84               |              |          |  |
| 5                 | DSSSFM     | 12      | 0         | 19.68              | 19.74               | 19.70               |              |          |  |
| 5                 | DSSSFM     | 12      | 7         | 19.80              | 19.82               | 19.79               | 21           | 3        |  |
| 5                 | DSSSFM     | 12      | 13        | 19.74              | 19.76               | 19.87               |              |          |  |
| 5                 | DSSSFM     | 24      | 0         | 19.78              | 19.70               | 19.76               |              |          |  |

| Band 17_Ant 0   |            |         |           |                     |                      |                  |                          |          |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|------------------|--------------------------|----------|--|
| DV (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. | Power High Ch. Freq. | Power Peak Freq. | Turn-up and offset (dBm) | MPN (dB) |  |
| Channel         |            |         |           | 23765               | 23766                | 23800            |                          |          |  |
| Frequency (MHz) |            |         |           | 709                 | 710                  | 711              |                          |          |  |
| 10              | QPSK       | 1       | 0         | 22.83               | 22.84                | 22.88            |                          |          |  |
| 10              | QPSK       | 1       | 25        | 23.08               | 23.21                | 23.03            | 24                       | 0        |  |
| 10              | QPSK       | 1       | 49        | 22.92               | 23.00                | 22.97            |                          |          |  |
| 10              | QPSK       | 25      | 0         | 22.79               | 22.80                | 22.89            |                          |          |  |
| 10              | QPSK       | 25      | 12        | 23.07               | 23.19                | 23.01            | 24                       | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.87               | 22.88                | 22.86            |                          |          |  |
| 10              | QPSK       | 50      | 0         | 23.05               | 23.18                | 22.93            |                          |          |  |
| 10              | HQAM       | 1       | 0         | 23.06               | 22.69                | 23.01            |                          |          |  |
| 10              | HQAM       | 1       | 25        | 22.97               | 23.15                | 22.97            | 24                       | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.87               | 22.90                | 22.86            |                          |          |  |
| 10              | HQAM       | 25      | 0         | 23.12               | 23.16                | 22.96            |                          |          |  |
| 10              | HQAM       | 25      | 12        | 23.00               | 23.14                | 22.72            | 24                       | 0        |  |
| 10              | HQAM       | 25      | 25        | 22.98               | 22.98                | 22.86            |                          |          |  |
| 10              | HQAM       | 50      | 0         | 22.92               | 23.15                | 22.98            |                          |          |  |
| 10              | HQAM       | 1       | 0         | 22.80               | 22.82                | 22.85            |                          |          |  |
| 10              | HQAM       | 1       | 25        | 22.84               | 23.02                | 22.80            | 24                       | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.97               | 22.94                | 22.71            |                          |          |  |
| 10              | HQAM       | 25      | 0         | 21.46               | 21.93                | 21.44            |                          |          |  |
| 10              | HQAM       | 25      | 12        | 21.58               | 21.60                | 21.44            | 23                       | 1        |  |
| 10              | HQAM       | 25      | 25        | 21.30               | 21.74                | 21.60            |                          |          |  |
| 10              | HQAM       | 50      | 0         | 21.30               | 21.87                | 21.48            |                          |          |  |
| 10              | DSSSFM     | 1       | 0         | 19.87               | 19.89                | 19.88            |                          |          |  |
| 10              | DSSSFM     | 1       | 25        | 19.94               | 20.19                | 20.10            | 21                       | 3        |  |
| 10              | DSSSFM     | 1       | 49        | 19.98               | 20.09                | 19.98            |                          |          |  |
| 10              | DSSSFM     | 25      | 0         | 19.90               | 20.00                | 20.00            |                          |          |  |
| 10              | DSSSFM     | 25      | 12        | 19.94               | 19.80                | 19.80            | 21                       | 3        |  |
| 10              | DSSSFM     | 25      | 25        | 19.90               | 20.06                | 19.90            |                          |          |  |
| 10              | DSSSFM     | 50      | 0         | 19.71               | 19.79                | 19.77            |                          |          |  |
| Channel         |            |         |           | 23765               | 23766                | 23800            |                          |          |  |
| Frequency (MHz) |            |         |           | 706.5               | 710                  | 713.5            |                          |          |  |
| 5               | QPSK       | 1       | 0         | 22.85               | 22.86                | 22.91            |                          |          |  |
| 5               | QPSK       | 1       | 12        | 23.14               | 23.14                | 22.85            | 24                       | 0        |  |
| 5               | QPSK       | 1       | 24        | 22.94               | 23.13                | 22.83            |                          |          |  |
| 5               | QPSK       | 12      | 0         | 22.79               | 22.53                | 22.83            |                          |          |  |
| 5               | QPSK       | 12      | 7         | 22.79               | 23.10                | 22.84            | 24                       | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.79               | 22.84                | 22.84            |                          |          |  |
| 5               | QPSK       | 24      | 0         | 22.87               | 22.88                | 22.86            |                          |          |  |
| 5               | HQAM       | 1       | 0         | 22.98               | 23.00                | 23.05            |                          |          |  |
| 5               | HQAM       | 1       | 12        | 22.70               | 22.94                | 23.04            | 24                       | 0        |  |
| 5               | HQAM       | 24      | 0         | 22.78               | 22.85                | 22.88            |                          |          |  |
| 5               | HQAM       | 12      | 0         | 23.12               | 23.03                | 22.88            |                          |          |  |
| 5               | HQAM       | 12      | 7         | 23.02               | 23.03                | 22.94            | 24                       | 0        |  |
| 5               | HQAM       | 24      | 0         | 22.80               | 22.87                | 22.88            |                          |          |  |
| 5               | HQAM       | 25      | 0         | 22.87               | 22.89                | 23.01            |                          |          |  |
| 5               | HQAM       | 1       | 0         | 22.53               | 22.83                | 22.82            | 24                       | 0        |  |
| 5               | HQAM       | 1       | 12        | 22.82               | 23.09                | 22.92            |                          |          |  |
| 5               | HQAM       | 24      | 0         | 22.65               | 22.73                | 22.50            |                          |          |  |
| 5               | HQAM       | 12      | 0         | 21.19               | 21.19                | 21.46            |                          |          |  |
| 5               | HQAM       | 12      | 7         | 21.23               | 21.48                | 21.21            | 21                       | 1        |  |
| 5               | HQAM       | 24      | 0         | 21.26               | 21.98                | 21.45            |                          |          |  |
| 5               | HQAM       | 25      | 0         | 21.23               | 21.33                | 21.27            |                          |          |  |
| 5               | DSSSFM     | 1       | 0         | 19.81               | 19.88                | 19.88            |                          |          |  |
| 5               | DSSSFM     | 1       | 12        | 19.73               | 20.08                | 20.08            | 21                       | 3        |  |
| 5               | DSSSFM     | 1       | 24        | 19.86               | 19.93                | 19.93            |                          |          |  |
| 5               | DSSSFM     | 12      | 0         | 19.96               | 19.87                | 19.94            |                          |          |  |
| 5               | DSSSFM     | 12      | 7         | 19.90               | 19.92                | 19.83            | 21                       | 3        |  |
| 5               | DSSSFM     | 24      | 0         | 19.78               | 19.88                | 19.83            |                          |          |  |
| 5               | DSSSFM     | 25      | 0         | 19.71               | 19.78                | 19.71            |                          |          |  |



| Band 25_Ant 1     |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
|-------------------|------------|---------|-----------|---------------------|----------------------|---------------------|----------------------|-----------------------|----------|-----|--|--|--|
| BW (MHz)          | Modulation | RS Size | RB Offset | Power Low Ch. Freq. | Power High Ch. Freq. | Power Low Ch. Freq. | Power High Ch. Freq. | Turn-on and off (dBm) | MFR (dB) |     |  |  |  |
| Channel           |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| Frequency (MHz)   |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 26140 26340 26540 |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 20                | QPSK       | 1       | 0         | 17.40               | 17.60                | 17.50               |                      |                       |          |     |  |  |  |
| 20                | QPSK       | 1       | 40        | 17.40               | 17.72                | 17.62               |                      |                       | 18.7     |     |  |  |  |
| 20                | QPSK       | 1       | 80        | 17.40               | 17.92                | 17.80               |                      |                       |          |     |  |  |  |
| 20                | QPSK       | 50      | 0         | 17.40               | 17.65                | 17.51               |                      |                       | 18.7     |     |  |  |  |
| 20                | QPSK       | 50      | 24        | 17.41               | 17.72                | 17.60               |                      |                       | 18.7     |     |  |  |  |
| 20                | QPSK       | 50      | 50        | 17.40               | 17.72                | 17.48               |                      |                       |          |     |  |  |  |
| 20                | QPSK       | 100     | 0         | 17.50               | 17.68                | 17.58               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 1       | 0         | 17.67               | 17.58                | 17.54               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 1       | 40        | 17.68               | 17.63                | 17.55               |                      |                       | 18.7     |     |  |  |  |
| 20                | HQPSK      | 1       | 80        | 17.68               | 17.58                | 17.52               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 50      | 0         | 17.59               | 17.56                | 17.57               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 50      | 24        | 17.69               | 17.59                | 17.63               |                      |                       | 18.7     |     |  |  |  |
| 20                | HQPSK      | 50      | 50        | 17.68               | 17.55                | 17.61               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 100     | 0         | 17.64               | 17.65                | 17.64               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 1       | 0         | 17.71               | 17.64                | 17.66               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 1       | 40        | 17.72               | 17.56                | 17.64               |                      |                       | 18.7     |     |  |  |  |
| 20                | HQPSK      | 1       | 80        | 17.72               | 17.55                | 17.62               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 50      | 0         | 17.66               | 17.67                | 17.67               |                      |                       |          |     |  |  |  |
| 20                | HQPSK      | 50      | 24        | 17.70               | 17.65                | 17.64               |                      |                       | 18.7     |     |  |  |  |
| 20                | HQPSK      | 50      | 50        | 17.64               | 17.65                | 17.64               |                      |                       |          |     |  |  |  |
| 20                | DSSSS      | 1       | 0         | 17.66               | 17.67                | 17.65               |                      |                       |          |     |  |  |  |
| 20                | DSSSS      | 1       | 40        | 17.66               | 17.67                | 17.65               |                      |                       | 18       | 0.7 |  |  |  |
| 20                | DSSSS      | 1       | 80        | 17.67               | 17.63                | 17.48               |                      |                       |          |     |  |  |  |
| 20                | DSSSS      | 50      | 0         | 17.50               | 17.53                | 17.44               |                      |                       |          |     |  |  |  |
| 20                | DSSSS      | 50      | 24        | 17.60               | 17.52                | 17.54               |                      |                       | 18       | 0.7 |  |  |  |
| 20                | DSSSS      | 50      | 50        | 17.40               | 17.52                | 17.40               |                      |                       |          |     |  |  |  |
| 20                | DSSSS      | 100     | 0         | 17.50               | 17.49                | 17.55               |                      |                       |          |     |  |  |  |
| Channel           |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 26950 26950 26950 |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 15                | QPSK       | 1       | 0         | 17.30               | 17.34                | 17.43               |                      |                       |          |     |  |  |  |
| 15                | QPSK       | 1       | 37        | 17.30               | 17.68                | 17.56               |                      |                       | 18.7     |     |  |  |  |
| 15                | QPSK       | 1       | 74        | 17.40               | 17.56                | 17.31               |                      |                       |          |     |  |  |  |
| 15                | QPSK       | 1       | 111       | 17.40               | 17.41                | 17.42               |                      |                       |          |     |  |  |  |
| 15                | QPSK       | 36      | 20        | 17.40               | 17.65                | 17.55               |                      |                       |          |     |  |  |  |
| 15                | QPSK       | 36      | 56        | 17.37               | 17.61                | 17.46               |                      |                       | 18.7     |     |  |  |  |
| 15                | QPSK       | 36      | 86        | 17.40               | 17.51                | 17.40               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 1       | 0         | 17.62               | 17.51                | 17.56               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 1       | 37        | 17.57               | 17.57                | 17.65               |                      |                       | 18.7     |     |  |  |  |
| 15                | HQPSK      | 1       | 74        | 17.57               | 17.52                | 17.57               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 1       | 111       | 17.56               | 17.48                | 17.44               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 36      | 20        | 17.60               | 17.47                | 17.53               |                      |                       | 18.7     |     |  |  |  |
| 15                | HQPSK      | 36      | 56        | 17.62               | 17.55                | 17.54               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 36      | 86        | 17.56               | 17.56                | 17.51               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 1       | 0         | 17.63               | 17.62                | 17.51               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 1       | 37        | 17.50               | 17.56                | 17.62               |                      |                       | 18.7     |     |  |  |  |
| 15                | HQPSK      | 1       | 74        | 17.50               | 17.56                | 17.62               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 36      | 0         | 17.58               | 17.57                | 17.67               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 36      | 20        | 17.40               | 17.56                | 17.34               |                      |                       | 18.7     |     |  |  |  |
| 15                | HQPSK      | 36      | 56        | 17.46               | 17.52                | 17.47               |                      |                       |          |     |  |  |  |
| 15                | HQPSK      | 36      | 86        | 17.46               | 17.42                | 17.41               |                      |                       |          |     |  |  |  |
| 15                | DSSSS      | 1       | 0         | 17.46               | 17.49                | 17.37               |                      |                       |          |     |  |  |  |
| 15                | DSSSS      | 1       | 37        | 17.51               | 17.69                | 17.50               |                      |                       | 18       | 0.7 |  |  |  |
| 15                | DSSSS      | 1       | 74        | 17.54               | 17.54                | 17.54               |                      |                       |          |     |  |  |  |
| 15                | DSSSS      | 36      | 0         | 17.11               | 17.41                | 17.25               |                      |                       |          |     |  |  |  |
| 15                | DSSSS      | 36      | 20        | 17.26               | 17.35                | 17.30               |                      |                       | 18       | 0.7 |  |  |  |
| 15                | DSSSS      | 36      | 56        | 17.26               | 17.35                | 17.30               |                      |                       |          |     |  |  |  |
| 15                | DSSSS      | 75      | 0         | 17.34               | 17.24                | 17.34               |                      |                       |          |     |  |  |  |
| Channel           |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 26955 26950 26955 |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 1       | 0         | 17.60               | 17.60                | 17.70               |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 1       | 40        | 17.40               | 17.65                | 17.37               |                      |                       | 18.7     |     |  |  |  |
| 5                 | QPSK       | 25      | 0         | 17.40               | 17.64                | 17.41               |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 12      | 0         | 17.40               | 17.63                | 17.54               |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 25      | 20        | 17.38               | 17.68                | 17.36               |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 50      | 0         | 17.62               | 17.67                | 17.53               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 1       | 0         | 17.40               | 17.65                | 17.40               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 1       | 25        | 17.57               | 17.58                | 17.59               |                      |                       | 18.7     |     |  |  |  |
| 5                 | HQPSK      | 1       | 40        | 17.63               | 17.60                | 17.62               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 1       | 60        | 17.48               | 17.61                | 17.57               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 25      | 12        | 17.58               | 17.53                | 17.53               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 25      | 20        | 17.47               | 17.56                | 17.49               |                      |                       | 18.7     |     |  |  |  |
| 5                 | HQPSK      | 50      | 0         | 17.56               | 17.54                | 17.58               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 50      | 12        | 17.66               | 17.57                | 17.47               |                      |                       | 18.7     |     |  |  |  |
| 5                 | HQPSK      | 1       | 40        | 17.40               | 17.52                | 17.55               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 1       | 60        | 17.40               | 17.42                | 17.41               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 25      | 12        | 17.48               | 17.60                | 17.50               |                      |                       | 18.7     |     |  |  |  |
| 5                 | HQPSK      | 25      | 20        | 17.51               | 17.47                | 17.26               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 50      | 12        | 17.60               | 17.51                | 17.60               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 1       | 0         | 17.37               | 17.66                | 17.66               |                      |                       | 18       | 0.7 |  |  |  |
| 5                 | DSSSS      | 1       | 25        | 17.38               | 17.67                | 17.35               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 1       | 40        | 17.46               | 17.51                | 17.43               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 25      | 0         | 17.26               | 17.51                | 17.39               |                      |                       | 18       | 0.7 |  |  |  |
| 5                 | DSSSS      | 25      | 12        | 17.50               | 17.60                | 17.34               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 25      | 20        | 17.46               | 17.62                | 17.35               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 50      | 0         | 17.27               | 17.28                | 17.48               |                      |                       |          |     |  |  |  |
| Channel           |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 26955 26950 26955 |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 1       | 0         | 17.62               | 17.60                | 17.70               |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 1       | 40        | 17.40               | 17.65                | 17.37               |                      |                       | 18.7     |     |  |  |  |
| 5                 | QPSK       | 25      | 0         | 17.40               | 17.64                | 17.41               |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 12      | 0         | 17.40               | 17.63                | 17.54               |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 25      | 20        | 17.38               | 17.68                | 17.36               |                      |                       |          |     |  |  |  |
| 5                 | QPSK       | 50      | 0         | 17.62               | 17.67                | 17.53               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 1       | 0         | 17.40               | 17.65                | 17.40               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 1       | 25        | 17.57               | 17.58                | 17.59               |                      |                       | 18.7     |     |  |  |  |
| 5                 | HQPSK      | 1       | 40        | 17.63               | 17.60                | 17.62               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 1       | 60        | 17.48               | 17.61                | 17.57               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 25      | 12        | 17.58               | 17.53                | 17.53               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 25      | 20        | 17.47               | 17.56                | 17.49               |                      |                       | 18.7     |     |  |  |  |
| 5                 | HQPSK      | 50      | 0         | 17.56               | 17.54                | 17.58               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 50      | 12        | 17.66               | 17.57                | 17.47               |                      |                       | 18.7     |     |  |  |  |
| 5                 | HQPSK      | 1       | 40        | 17.40               | 17.52                | 17.55               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 1       | 60        | 17.40               | 17.42                | 17.41               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 25      | 12        | 17.48               | 17.60                | 17.50               |                      |                       | 18.7     |     |  |  |  |
| 5                 | HQPSK      | 25      | 20        | 17.51               | 17.47                | 17.26               |                      |                       |          |     |  |  |  |
| 5                 | HQPSK      | 50      | 12        | 17.60               | 17.51                | 17.60               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 1       | 0         | 17.37               | 17.66                | 17.66               |                      |                       | 18       | 0.7 |  |  |  |
| 5                 | DSSSS      | 1       | 25        | 17.38               | 17.67                | 17.35               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 1       | 40        | 17.46               | 17.51                | 17.43               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 25      | 0         | 17.26               | 17.51                | 17.39               |                      |                       | 18       | 0.7 |  |  |  |
| 5                 | DSSSS      | 25      | 12        | 17.50               | 17.60                | 17.34               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 25      | 20        | 17.46               | 17.62                | 17.35               |                      |                       |          |     |  |  |  |
| 5                 | DSSSS      | 50      | 0         | 17.27               | 17.28                | 17.48               |                      |                       |          |     |  |  |  |
| Channel           |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 26955 26950 26955 |            |         |           |                     |                      |                     |                      |                       |          |     |  |  |  |
| 1.4               | QPSK       | 1       | 0         | 17.50               | 17.67                | 17.58               |                      |                       |          |     |  |  |  |
| 1.4               | QPSK       | 1       | 3         | 17.52               | 17.65                | 17.55               |                      |                       | 18.7     |     |  |  |  |
| 1.4               | QPSK       | 1       | 6         | 17.42               | 17.65                | 17.30               |                      |                       |          |     |  |  |  |
| 1.4               | QPSK       | 3       | 0         | 17.52               | 17.65                | 17.55               |                      |                       |          |     |  |  |  |
| 1.4               | QPSK       | 3       | 3         | 17.46               | 17.67                | 17.55               |                      |                       |          |     |  |  |  |
| 1.4               | QPSK       | 3       | 6         | 17.46               | 17.67                | 17.30               |                      |                       |          |     |  |  |  |
| 1.4               | QPSK       | 6       | 0         | 17.44               | 17.68                | 17.54               |                      |                       | 18.7     |     |  |  |  |
| 1.4               | HQPSK      | 1       | 3         | 17.58               | 17.61                | 17.48               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 1       | 6         | 17.53               | 17.69                | 17.61               |                      |                       | 18.7     |     |  |  |  |
| 1.4               | HQPSK      | 3       | 0         | 17.55               | 17.68                | 17.54               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 3       | 3         | 17.54               | 17.62                | 17.47               |                      |                       | 18.7     |     |  |  |  |
| 1.4               | HQPSK      | 6       | 0         | 17.54               | 17.68                | 17.54               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 1       | 3         | 17.64               | 17.38                | 17.54               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 1       | 6         | 17.41               | 17.62                | 17.43               |                      |                       | 18.7     |     |  |  |  |
| 1.4               | HQPSK      | 3       | 0         | 17.54               | 17.68                | 17.41               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 3       | 3         | 17.65               | 17.63                | 17.71               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 6       | 3         | 17.33               | 17.35                | 17.30               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 6       | 6         | 17.59               | 17.62                | 17.54               |                      |                       | 18.7     |     |  |  |  |
| 1.4               | HQPSK      | 1       | 6         | 17.28               | 17.53                | 17.40               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 3       | 3         | 17.36               | 17.43                | 17.47               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 6       | 6         | 17.48               | 17.60                | 17.54               |                      |                       |          |     |  |  |  |
| 1.4               | HQPSK      | 6       | 9         | 17.37               | 17.47                | 17.42               |                      |                       | 18       | 0.7 |  |  |  |
| 1.4               | DSSSS      | 1       | 3         | 17.32               | 17.45                | 17.31               |                      |                       |          |     |  |  |  |
| 1.4               | DSSSS      | 3       | 3         | 17.49               | 17.52                | 17.38               |                      |                       |          |     |  |  |  |

| Band 30_Ant 1     |            |          |           |                       |                        |                        |                     |          |  |
|-------------------|------------|----------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|
| BW (kHz)          | Modulation | RB (kHz) | RB Offset | Power Low Ch. (Freq.) | Power Mids Ch. (Freq.) | Power High Ch. (Freq.) | Tune-up freq. (MHz) | MPE (dB) |  |
| Channel           |            |          |           |                       |                        |                        |                     |          |  |
| 27710             |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz)   |            |          |           |                       |                        |                        |                     |          |  |
| 10                | QPSK       | 1        | 0         | 17.73                 |                        |                        |                     |          |  |
| 10                | QPSK       | 1        | 25        | 17.84                 |                        |                        | 18.9                | 0        |  |
| 10                | QPSK       | 1        | 49        | 17.82                 |                        |                        |                     |          |  |
| 10                | QPSK       | 25       | 0         | 17.81                 |                        |                        |                     |          |  |
| 10                | QPSK       | 25       | 12        | 17.82                 |                        |                        | 18.9                | 0        |  |
| 10                | QPSK       | 25       | 25        | 17.75                 |                        |                        |                     |          |  |
| 10                | QPSK       | 50       | 0         | 17.80                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 1        | 0         | 17.76                 |                        |                        | 18.9                | 0        |  |
| 10                | 16QAM      | 1        | 25        | 17.84                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 1        | 49        | 17.76                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 25       | 0         | 17.82                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 25       | 12        | 17.75                 |                        |                        | 18.9                | 0        |  |
| 10                | 16QAM      | 25       | 25        | 17.73                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 50       | 0         | 17.82                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 1        | 0         | 17.76                 |                        |                        | 18.9                | 0        |  |
| 10                | 84QAM      | 1        | 25        | 17.82                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 1        | 49        | 17.80                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 25       | 0         | 17.79                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 25       | 12        | 17.74                 |                        |                        | 18.9                | 0        |  |
| 10                | 84QAM      | 25       | 25        | 17.74                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 50       | 0         | 17.72                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 1        | 0         | 17.79                 |                        |                        | 18.9                | 0        |  |
| 10                | 256QAM     | 1        | 25        | 17.72                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 1        | 49        | 17.81                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 25       | 0         | 17.79                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 25       | 12        | 17.76                 |                        |                        | 18.9                | 0        |  |
| 10                | 256QAM     | 25       | 25        | 17.73                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 50       | 0         | 17.77                 |                        |                        |                     |          |  |
| Channel           |            |          |           |                       |                        |                        |                     |          |  |
| 27665 27710 27735 |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz)   |            |          |           |                       |                        |                        |                     |          |  |
| 5                 | QPSK       | 1        | 0         | 17.66                 | 17.46                  | 17.60                  |                     |          |  |
| 5                 | QPSK       | 1        | 12        | 17.76                 | 17.81                  | 17.78                  | 18.9                | 0        |  |
| 5                 | QPSK       | 1        | 24        | 17.58                 | 17.52                  | 17.48                  |                     |          |  |
| 5                 | QPSK       | 12       | 0         | 17.79                 | 17.76                  | 17.76                  |                     |          |  |
| 5                 | QPSK       | 12       | 7         | 17.78                 | 17.73                  | 17.80                  | 18.9                | 0        |  |
| 5                 | QPSK       | 12       | 13        | 17.74                 | 17.69                  | 17.68                  |                     |          |  |
| 5                 | QPSK       | 26       | 0         | 17.72                 | 17.76                  | 17.67                  |                     |          |  |
| 5                 | 16QAM      | 1        | 0         | 17.67                 | 17.64                  | 17.71                  |                     |          |  |
| 5                 | 16QAM      | 1        | 12        | 17.55                 | 17.56                  | 17.57                  | 18.9                | 0        |  |
| 5                 | 16QAM      | 1        | 24        | 17.66                 | 17.71                  | 17.70                  |                     |          |  |
| 5                 | 16QAM      | 12       | 0         | 17.71                 | 17.72                  | 17.70                  |                     |          |  |
| 5                 | 16QAM      | 12       | 7         | 17.73                 | 17.74                  | 17.65                  | 18.9                | 0        |  |
| 5                 | 16QAM      | 12       | 13        | 17.71                 | 17.61                  | 17.67                  |                     |          |  |
| 5                 | 16QAM      | 26       | 0         | 17.63                 | 17.62                  | 17.57                  |                     |          |  |
| 5                 | 84QAM      | 1        | 0         | 17.71                 | 17.77                  | 17.62                  |                     |          |  |
| 5                 | 84QAM      | 1        | 12        | 17.44                 | 17.34                  | 17.66                  | 18.9                | 0        |  |
| 5                 | 84QAM      | 1        | 24        | 17.59                 | 17.45                  | 17.68                  |                     |          |  |
| 5                 | 84QAM      | 12       | 0         | 17.75                 | 17.68                  | 17.65                  |                     |          |  |
| 5                 | 84QAM      | 12       | 7         | 17.49                 | 17.63                  | 17.71                  | 18.9                | 0        |  |
| 5                 | 84QAM      | 12       | 13        | 17.56                 | 17.68                  | 17.78                  |                     |          |  |
| 5                 | 84QAM      | 26       | 0         | 17.62                 | 17.67                  | 17.76                  |                     |          |  |
| 5                 | 256QAM     | 1        | 0         | 17.77                 | 17.56                  | 17.61                  |                     |          |  |
| 5                 | 256QAM     | 1        | 12        | 17.60                 | 17.57                  | 17.47                  | 18.9                | 0        |  |
| 5                 | 256QAM     | 1        | 24        | 17.23                 | 17.34                  | 17.56                  |                     |          |  |
| 5                 | 256QAM     | 12       | 0         | 17.73                 | 17.83                  | 17.65                  |                     |          |  |
| 5                 | 256QAM     | 12       | 7         | 17.79                 | 17.80                  | 17.74                  | 18.9                | 0        |  |

| Band 30_Ant 2     |            |          |           |                       |                        |                        |                     |          |  |
|-------------------|------------|----------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|
| BW (kHz)          | Modulation | RB (kHz) | RB Offset | Power Low Ch. (Freq.) | Power Mids Ch. (Freq.) | Power High Ch. (Freq.) | Tune-up freq. (MHz) | MPE (dB) |  |
| Channel           |            |          |           |                       |                        |                        |                     |          |  |
| 27710             |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz)   |            |          |           |                       |                        |                        |                     |          |  |
| 10                | QPSK       | 1        | 0         | 21.48                 |                        |                        |                     |          |  |
| 10                | QPSK       | 1        | 25        | 21.51                 |                        |                        | 23                  | 0        |  |
| 10                | QPSK       | 1        | 49        | 21.43                 |                        |                        |                     |          |  |
| 10                | QPSK       | 25       | 0         | 21.43                 |                        |                        |                     |          |  |
| 10                | QPSK       | 25       | 12        | 21.48                 |                        |                        | 23                  | 0        |  |
| 10                | QPSK       | 25       | 25        | 21.46                 |                        |                        |                     |          |  |
| 10                | QPSK       | 50       | 0         | 21.48                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 1        | 0         | 21.43                 |                        |                        | 23                  | 0        |  |
| 10                | 16QAM      | 1        | 25        | 21.39                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 1        | 49        | 21.44                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 25       | 0         | 21.05                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 25       | 12        | 21.50                 |                        |                        | 23                  | 0        |  |
| 10                | 16QAM      | 25       | 25        | 21.50                 |                        |                        |                     |          |  |
| 10                | 16QAM      | 50       | 0         | 21.05                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 1        | 0         | 21.15                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 1        | 25        | 21.20                 |                        |                        | 23                  | 0        |  |
| 10                | 84QAM      | 1        | 49        | 21.20                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 25       | 0         | 20.06                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 25       | 12        | 20.51                 |                        |                        | 22                  | 1        |  |
| 10                | 84QAM      | 25       | 25        | 20.06                 |                        |                        |                     |          |  |
| 10                | 84QAM      | 50       | 0         | 20.09                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 1        | 0         | 18.00                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 1        | 25        | 18.04                 |                        |                        | 20                  | 3        |  |
| 10                | 256QAM     | 1        | 49        | 18.08                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 25       | 0         | 18.12                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 25       | 12        | 18.11                 |                        |                        | 20                  | 3        |  |
| 10                | 256QAM     | 25       | 25        | 18.21                 |                        |                        |                     |          |  |
| 10                | 256QAM     | 50       | 0         | 18.12                 |                        |                        |                     |          |  |
| Channel           |            |          |           |                       |                        |                        |                     |          |  |
| 27665 27710 27735 |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz)   |            |          |           |                       |                        |                        |                     |          |  |
| 5                 | QPSK       | 1        | 0         | 21.21                 | 21.42                  | 21.23                  |                     |          |  |
| 5                 | QPSK       | 1        | 12        | 21.45                 | 21.48                  | 21.44                  | 23                  | 0        |  |
| 5                 | QPSK       | 1        | 24        | 21.40                 | 21.30                  | 21.43                  |                     |          |  |
| 5                 | QPSK       | 12       | 0         | 21.42                 | 21.38                  | 21.43                  |                     |          |  |
| 5                 | QPSK       | 12       | 7         | 21.48                 | 21.39                  | 21.44                  | 23                  | 0        |  |
| 5                 | QPSK       | 12       | 13        | 21.39                 | 21.44                  | 21.45                  |                     |          |  |
| 5                 | QPSK       | 26       | 0         | 21.43                 | 21.35                  | 21.46                  |                     |          |  |
| 5                 | 16QAM      | 1        | 0         | 21.30                 | 21.34                  | 21.38                  |                     |          |  |
| 5                 | 16QAM      | 1        | 12        | 21.32                 | 21.23                  | 21.28                  | 23                  | 0        |  |
| 5                 | 16QAM      | 1        | 24        | 21.43                 | 21.35                  | 21.33                  |                     |          |  |
| 5                 | 16QAM      | 12       | 0         | 21.06                 | 21.09                  | 21.03                  |                     |          |  |
| 5                 | 16QAM      | 12       | 7         | 21.07                 | 21.16                  | 21.13                  | 23                  | 0        |  |
| 5                 | 16QAM      | 12       | 13        | 21.17                 | 21.18                  | 21.17                  |                     |          |  |
| 5                 | 16QAM      | 26       | 0         | 21.08                 | 21.05                  | 21.03                  |                     |          |  |
| 5                 | 84QAM      | 1        | 0         | 21.30                 | 21.28                  | 21.10                  |                     |          |  |
| 5                 | 84QAM      | 1        | 12        | 21.26                 | 21.25                  | 21.20                  | 23                  | 0        |  |
| 5                 | 84QAM      | 1        | 24        | 21.14                 | 21.38                  | 21.33                  |                     |          |  |
| 5                 | 84QAM      | 12       | 0         | 20.19                 | 20.12                  | 20.05                  |                     |          |  |
| 5                 | 84QAM      | 12       | 7         | 20.24                 | 20.02                  | 20.00                  | 22                  | 1        |  |
| 5                 | 84QAM      | 12       | 13        | 20.53                 | 20.18                  | 20.15                  |                     |          |  |
| 5                 | 84QAM      | 26       | 0         | 20.01                 | 20.31                  | 20.13                  |                     |          |  |
| 5                 | 256QAM     | 1        | 0         | 18.03                 | 18.26                  | 18.08                  |                     |          |  |
| 5                 | 256QAM     | 1        | 12        | 18.59                 | 18.19                  | 18.30                  | 20                  | 3        |  |
| 5                 | 256QAM     | 1        | 24        | 18.13                 | 18.15                  | 18.17                  |                     |          |  |
| 5                 | 256QAM     | 12       | 0         | 18.24                 | 18.04                  | 18.25                  |                     |          |  |
| 5                 | 256QAM     | 12       | 7         | 18.57                 | 18.25                  | 18.18                  | 20                  | 3        |  |
| 5                 | 256QAM     | 12       | 13        | 18.10                 | 18.30                  | 18.22                  |                     |          |  |
| 5                 | 256QAM     | 26       | 0         | 18.25                 | 18.05                  | 18.04                  |                     |          |  |

| Band 66_Ant 1   |            |         |           |                     |                      |                      |                     |          |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|---------------------|----------|--|
| BW (kHz)        | Modulation | RB Size | RB Offset | Power Low Ch. (MHz) | Power Mids Ch. (MHz) | Power High Ch. (MHz) | Tune-up freq. (MHz) | MPE (dB) |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |  |
|                 |            |         |           | 130072              | 130122               | 130172               |                     |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                      |                     |          |  |
| 20              | QPSK       | 1       | 0         | 17.31               | 17.42                | 17.25                |                     |          |  |
| 20              | QPSK       | 1       | 49        | 17.38               | 17.48                | 17.41                | 18.4                | 0        |  |
| 20              | QPSK       | 1       | 98        | 17.31               | 17.27                | 17.68                |                     |          |  |
| 20              | QPSK       | 50      | 0         | 17.31               | 17.34                | 17.28                |                     |          |  |
| 20              | QPSK       | 50      | 24        | 17.35               | 17.44                | 17.38                | 18.4                | 0        |  |
| 20              | QPSK       | 50      | 35        | 17.33               | 17.34                | 17.69                |                     |          |  |
| 20              | QPSK       | 100     | 0         | 17.33               | 17.42                | 17.29                |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 17.38               | 17.36                | 17.37                |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 17.41               | 17.38                | 17.41                | 18.4                | 0        |  |
| 20              | 16QAM      | 1       | 98        | 17.42               | 17.43                | 17.25                |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 17.34               | 17.32                | 17.33                |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 17.32               | 17.31                | 17.27                | 18.4                | 0        |  |
| 20              | 16QAM      | 50      | 35        | 17.31               | 17.36                | 17.50                |                     |          |  |
| 20              | 16QAM      | 100     | 0         | 17.38               | 17.38                | 17.25                |                     |          |  |
| 20              | 84QAM      | 1       | 0         | 17.30               | 17.39                | 17.41                |                     |          |  |
| 20              | 84QAM      | 1       | 49        | 17.31               | 17.37                | 17.21                | 18.4                | 0        |  |
| 20              | 84QAM      | 1       | 98        | 17.29               | 17.30                | 17.33                |                     |          |  |
| 20              | 84QAM      | 50      | 0         | 17.19               | 17.30                | 17.22                |                     |          |  |
| 20              | 84QAM      | 50      | 24        | 17.32               | 17.33                | 17.18                | 18.4                | 0        |  |
| 20              | 84QAM      | 50      | 35        | 17.28               | 17.23                | 17.59                |                     |          |  |
| 20              | 84QAM      | 100     | 0         | 17.27               | 17.30                | 17.17                |                     |          |  |
| 20              | 256QAM     | 1       | 0         | 17.04               | 17.30                | 17.29                |                     |          |  |
| 20              | 256QAM     | 1       | 49        | 17.27               | 17.35                | 17.40                | 18.4                | 0        |  |
| 20              | 256QAM     | 1       | 98        | 17.31               | 17.19                | 18.05                |                     |          |  |
| 20              | 256QAM     | 50      | 0         | 17.29               | 17.29                | 17.19                |                     |          |  |
| 20              | 256QAM     | 50      | 24        | 17.32               | 17.38                | 17.33                | 18.4                | 0        |  |
| 20              | 256QAM     | 50      | 35        | 17.21               | 17.33                | 17.08                |                     |          |  |
| 20              | 256QAM     | 100     | 0         | 17.31               | 17.38                | 17.15                |                     |          |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |  |
|                 |            |         |           | 131115              | 131165               | 131215               |                     |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                      |                     |          |  |
| 15              | QPSK       | 1       | 0         | 17.27               | 17.17                | 17.38                |                     |          |  |
| 15              | QPSK       | 1       | 35        | 17.21               | 17.24                | 17.37                | 18.4                | 0        |  |
| 15              | QPSK       | 1       | 70        | 17.23               | 17.24                | 17.37                |                     |          |  |
| 15              | QPSK       | 36      | 0         | 17.31               | 17.34                | 17.16                |                     |          |  |
| 15              | QPSK       | 36      | 20        | 17.35               | 17.33                | 17.28                | 18.4                | 0        |  |
| 15              | QPSK       | 36      | 36        | 17.33               | 17.22                | 17.69                |                     |          |  |
| 15              | QPSK       | 75      | 0         | 17.32               | 17.39                | 17.24                |                     |          |  |
| 15              | QPSK       | 75      | 35        | 17.32               | 17.35                | 17.24                | 18.4                | 0        |  |
| 15              | 16QAM      | 1       | 0         | 17.30               | 17.28                | 17.31                |                     |          |  |
| 15              | 16QAM      | 1       | 35        | 17.26               | 17.33                | 17.41                | 18.4                | 0        |  |
| 15              | 16QAM      | 1       | 70        | 17.28               | 17.32                | 17.31                |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 17.36               | 17.26                | 17.31                |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 17.32               | 17.27                | 17.21                | 18.4                | 0        |  |
| 15              | 16QAM      | 36      | 36        | 17.34               | 17.24                | 17.68                |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 17.38               | 17.35                | 17.11                |                     |          |  |
| 15              | 16QAM      | 75      | 35        | 17.22               | 17.29                | 17.45                | 18.4                | 0        |  |
| 15              | 84QAM      | 1       | 0         | 17.22               | 17.29                | 17.31                |                     |          |  |
| 15              | 84QAM      | 1       | 35        | 17.24               | 17.30                | 17.29                | 18.4                | 0        |  |
| 15              | 84QAM      | 1       | 70        | 17.27               | 17.27                | 17.31                |                     |          |  |
| 15              | 84QAM      | 36      | 0         | 18.06               | 17.03                | 17.19                |                     |          |  |
| 15              | 84QAM      | 36      | 20        | 17.16               | 17.08                | 17.24                | 18.4                | 0        |  |
| 15              | 84QAM      | 36      | 36        | 17.18               | 17.05                | 17.28                |                     |          |  |
| 15              | 84QAM      | 75      | 0         | 17.11               | 17.07                | 17.09                |                     |          |  |
| 15              | 256QAM     | 1       | 0         | 17.08               | 17.09                | 17.23                | 18.4                | 0        |  |
| 15              | 256QAM     | 1       | 35        | 17.06               | 17.14                | 17.08                |                     |          |  |
| 15              | 256QAM     | 1       | 70        | 17.12               | 17.07                | 17.05                | 18.4                | 0        |  |
| 15              | 256QAM     | 36      | 0         | 17.16               | 17.14                | 17.07                |                     |          |  |
| 15              | 256QAM     | 36      | 20        | 17.04               | 17.08                | 17.10                | 18.4                | 0        |  |
| 15              | 256QAM     | 36      | 36        | 17.06               | 17.05                | 17.08                |                     |          |  |
| 15              | 256QAM     | 75      | 0         | 17.08               | 17.14                | 17.06                |                     |          |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |  |
|                 |            |         |           | 130022              | 130122               | 130122               |                     |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                      |                     |          |  |
| 10              | QPSK       | 1       | 0         | 17.14               | 17.23                | 17.01                |                     |          |  |
| 10              | QPSK       | 1       | 20        | 17.26               | 17.35                | 17.38                | 18.4                | 0        |  |
| 10              | QPSK       | 1       | 40        | 17.30               | 17.24                | 17.38                |                     |          |  |
| 10              | QPSK       | 25      | 0         | 17.28               | 17.34                | 17.21                |                     |          |  |
| 10              | QPSK       | 25      | 12        | 17.24               | 17.35                | 17.34                | 18.4                | 0        |  |
| 10              | QPSK       | 25      | 25        | 17.25               | 17.29                | 17.68                |                     |          |  |
| 10              | QPSK       | 50      | 0         | 17.24               | 17.30                | 17.25                |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 17.26               | 17.33                | 17.25                |                     |          |  |
| 10              | 16QAM      | 1       | 20        | 17.35               | 17.33                | 17.34                | 18.4                | 0        |  |
| 10              | 16QAM      | 1       | 40        | 17.42               | 17.38                | 17.21                |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 17.28               | 17.32                | 17.24                |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 17.21               | 17.18                | 17.21                | 18.4                | 0        |  |
| 10              | 16QAM      | 25      | 25        | 17.30               | 17.31                | 16.97                |                     |          |  |
| 10              | 16QAM      | 50      | 0         | 17.26               | 17.33                | 17.25                |                     |          |  |
| 10              | 84QAM      | 1       | 0         | 17.27               | 17.11                | 17.35                |                     |          |  |
| 10              | 84QAM      | 1       | 20        | 17.24               | 17.34                | 17.13                | 18.4                | 0        |  |
| 10              | 84QAM      | 1       | 40        | 17.31               | 17.13                | 17.38                |                     |          |  |
| 10              | 84QAM      | 25      | 0         | 17.10               | 17.08                | 17.25                |                     |          |  |
| 10              | 84QAM      | 25      | 12        | 17.11               | 17.07                | 17.22                | 18.4                | 0        |  |
| 10              | 84QAM      | 25      | 25        | 17.07               | 17.13                | 16.88                |                     |          |  |
| 10              | 84QAM      | 50      | 0         | 17.07               | 17.12                | 16.88                |                     |          |  |
| 10              | 256QAM     | 1       | 0         | 16.93               | 17.02                | 17.01                | 18.4                | 0        |  |
| 10              | 256QAM     | 1       | 20        | 17.09               | 17.09                | 17.14                |                     |          |  |
| 10              | 256QAM     | 1       | 40        | 17.05               | 17.05                | 16.93                | 18.4                | 0        |  |
| 10              | 256QAM     | 25      | 0         | 17.15               | 17.05                | 17.08                |                     |          |  |
| 10              | 256QAM     | 25      | 12        | 17.06               | 17.12                | 17.37                |                     |          |  |
| 10              | 256QAM     | 25      | 25        | 17.22               | 17.18                | 16.98                | 18.4                | 0        |  |
| 10              | 256QAM     | 50      | 0         | 17.06               | 17.27                | 17.05                |                     |          |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |  |
|                 |            |         |           | 131067              | 130122               | 130172               |                     |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                      |                     |          |  |
| 5               | QPSK       | 1       | 0         | 17.26               | 17.17                | 17.26                |                     |          |  |
| 5               | QPSK       | 1       | 35        | 17.29               | 17.40                | 17.28                | 18.4                | 0        |  |
| 5               | QPSK       | 1       | 70        | 17.31               | 17.25                | 16.94                |                     |          |  |
| 5               | QPSK       | 12      | 0         | 17.24               | 17.24                | 17.21                |                     |          |  |
| 5               | QPSK       | 12      | 6         | 17.28               | 17.32                | 17.28                | 18.4                | 0        |  |
| 5               | QPSK       | 12      | 12        | 17.29               | 17.34                | 17.27                |                     |          |  |
| 5               | QPSK       | 25      | 0         | 17.28               | 17.42                | 17.25                |                     |          |  |
| 5               | QPSK       | 25      | 6         | 17.32               | 17.36                | 17.28                | 18.4                | 0        |  |
| 5               | QPSK       | 25      | 12        | 17.33               | 17.23                | 17.23                |                     |          |  |
| 5               | QPSK       | 50      | 0         | 17.28               | 17.28                | 17.19                |                     |          |  |
| 5               | QPSK       | 50      | 6         | 17.32               | 17.35                | 17.21                | 18.4                | 0        |  |
| 5               | QPSK       | 50      | 12        | 17.28               | 17.33                | 17.01                |                     |          |  |
| 5               | QPSK       | 100     | 0         | 17.29               | 17.35                | 17.17                |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 17.21               | 17.21                | 17.21                |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 17.35               | 17.31                | 16.93                | 18.4                | 0        |  |
| 5               | 16QAM      | 1       | 24        | 17.37               | 17.31                | 16.87                |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 17.27               | 17.22                | 17.22                | 18.4                | 0        |  |
| 5               | 16QAM      | 12      | 6         | 17.36               | 17.32                | 17.18                |                     |          |  |
| 5               | 16QAM      | 12      | 12        | 17.28               | 17.38                | 17.21                | 18.4                | 0        |  |
| 5               | 16QAM      | 25      | 0         | 17.26               | 17.26                | 16.98                |                     |          |  |
| 5               | 16QAM      | 25      | 6         | 17.35               | 17.18                | 17.23                | 18.4                | 0        |  |
| 5               | 16QAM      | 25      | 12        | 17.04               | 17.12                | 16.82                |                     |          |  |
| 5               | 16QAM      | 50      | 0         | 17.26               | 17.26                | 16.96                |                     |          |  |
| 5               | 16QAM      | 50      | 6         | 17.35               | 17.18                | 17.23                | 18.4                | 0        |  |
| 5               | 256QAM     | 1       | 0         | 17.26               | 17.26                | 16.96                |                     |          |  |
| 5               | 256QAM     | 1       | 12        | 17.35               | 17.33                | 17.26                | 18.4                | 0        |  |
| 5               | 256QAM     | 1       | 24        | 17.34               | 17.11                | 16.88                |                     |          |  |
| 5               | 256QAM     | 12      | 0         | 17.26               | 17.03                | 17.16                | 18.4                | 0        |  |
| 5               | 256QAM     | 12      | 6         | 17.35               | 17.18                | 17.22                |                     |          |  |
| 5               | 256QAM     | 12      | 12        | 17.13               | 17.19                | 17.27                | 18.4                | 0        |  |
| 5               | 256QAM     | 25      | 0         | 17.14               | 17.26                | 16.94                |                     |          |  |
| 5               | 256QAM     | 25      | 6         | 17.26               | 17.26                | 16.96                | 18.4                | 0        |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |  |
|                 |            |         |           | 131075              | 130122               | 130172               |                     |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                      |                     |          |  |
| 3               | QPSK       | 1       | 0         | 17.34               | 17.19                | 17.19                |                     |          |  |
| 3               | QPSK       | 1       | 9         | 17.22               | 17.38                | 17.17                | 18.4                | 0        |  |
| 3               | QPSK       | 1       | 18        | 17.36               | 17.22                | 17.22                |                     |          |  |
| 3               | QPSK       | 8       | 0         | 17.24               | 17.22                | 17.26                |                     |          |  |
| 3               | QPSK       | 8       | 4         | 17.32               | 17.44                | 17.35                | 18.4                | 0        |  |
| 3               | QPSK       | 16      | 0         | 17.27               | 17.33                | 17.27                |                     |          |  |
| 3               | QPSK       | 16      | 8         | 17.32               | 17.37                | 17.17                | 18.4                | 0        |  |
| 3               | 16QAM      | 1       | 0         | 17.32               | 17.28                | 17.35                |                     |          |  |
| 3               | 16QAM      | 1       | 9         | 17.36               | 17.36                | 17.21                | 18.4                | 0        |  |
| 3               | 16QAM      | 1       | 18        | 17.42               | 17.43                | 17.15                |                     |          |  |
| 3               | 16QAM      | 8       | 0         | 17.28               | 17.20                | 17.26                |                     |          |  |
| 3               | 16QAM      | 8       | 4         | 17.30               | 17.20                | 17.21                | 18.4                | 0        |  |
| 3               | 16QAM      | 16      | 0         | 17.26               | 17.31                | 17.18                |                     |          |  |
| 3               | 16QAM      | 16      | 8         | 17.16               | 17.14                | 17.20                | 18.4                | 0        |  |
| 3               | 16QAM      | 32      | 0         | 17.36               | 17.27                | 17.08                |                     |          |  |
| 3               | 16QAM      | 32      | 8         | 17.32               | 17.14                | 16.88                | 18.4                | 0        |  |
| 3               | 84QAM      | 1       | 0         | 17.07               | 17.08                | 17.21                |                     |          |  |
| 3               | 84QAM      | 1       | 9         | 17.10               | 17.29                | 17.13                | 18.4                | 0        |  |
| 3               | 84QAM      | 1       | 18        | 17.03               | 17.14                | 17.28                |                     |          |  |
| 3               | 84QAM      | 8       | 0         | 17.39               | 17.22                | 17.33                |                     |          |  |
| 3               | 84QAM      | 8       | 4         | 17.31               | 17.31                | 17.16                | 18.4                | 0        |  |
| 3               | 84QAM      | 16      | 0         | 17.36               | 17.23                | 17.17                |                     |          |  |
| 3               | 84QAM      | 16      | 8         | 17.03               | 17.03                | 17.12                | 18.4                | 0        |  |
| 3               | 84QAM      | 32      | 0         | 17.28               | 17.18                | 17.05                |                     |          |  |
| 3               | 84QAM      | 32      | 8         | 17.29               | 17.21                | 17.08                | 18.4                | 0        |  |
| 3               | 84QAM      | 32      | 16        | 17.12               | 17.23                | 17.10                |                     |          |  |
| 3               | 256QAM     | 1       | 0         | 17.06               | 17.23                | 17.17                | 18.4                | 0        |  |
| 3               | 256QAM     | 1       | 8         | 17.05               | 17.06                | 17.05                |                     |          |  |
| 3               | 256QAM     | 16      | 0         | 17.09               | 17.16                | 17.05                | 18.4                | 0        |  |
| Channel         |            |         |           |                     |                      |                      |                     |          |  |
|                 |            |         |           | 131079              | 130122               | 130172               |                     |          |  |
| Frequency (MHz) |            |         |           |                     |                      |                      |                     |          |  |
| 1.4             | QPSK       | 1       | 0         | 17.16               | 17.31                | 17.17                |                     |          |  |
| 1.4             | QPSK       | 1       | 3         | 17.30               | 17.40                | 17.28                | 18.4                | 0        |  |
| 1.4             | QPSK       | 1       | 5         | 17.22               | 17.25                | 17.02                |                     |          |  |
| 1.4             | QPSK       | 1       | 7         | 17.29               | 17.33                | 17.14                | 18.4                | 0        |  |
| 1.4             | QPSK       | 1       | 9         | 17.36               | 17.33                | 17.27                |                     |          |  |
| 1.4             | QPSK       | 1       | 3         |                     |                      |                      |                     |          |  |

| Band 66 Ant 2   |            |            |              |                         |                             |                               |                     |             |  |  |
|-----------------|------------|------------|--------------|-------------------------|-----------------------------|-------------------------------|---------------------|-------------|--|--|
| SW<br>(MHz)     | Modulation | RS<br>Rate | RB<br>Offset | Power<br>Level<br>(dBm) | Power<br>Level<br>Ch. Freq. | Power<br>Level<br>Pilot Freq. | Time-slot<br>(slot) | MPR<br>(dB) |  |  |
| Channel         |            |            |              |                         |                             |                               |                     |             |  |  |
| Frequency (MHz) |            |            |              |                         |                             |                               |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 21.09                   | 21.18                       | 21.08                         |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 21.09                   | 21.18                       | 21.08                         | 21.9                | 0           |  |  |
| 25              | QPSK       | 1          | 99           | 21.02                   | 21.11                       | 21.02                         |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 21.06                   | 21.13                       | 21.06                         |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 21.06                   | 21.13                       | 21.06                         | 21.9                | 0           |  |  |
| 25              | QPSK       | 1          | 99           | 21.03                   | 21.08                       | 21.03                         |                     |             |  |  |
| 25              | QPSK       | 100        | 0            | 21.12                   | 21.20                       | 21.06                         |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 20.96                   | 21.09                       | 20.96                         |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 20.96                   | 21.09                       | 20.96                         | 21.9                | 0           |  |  |
| 25              | QPSK       | 1          | 99           | 20.93                   | 21.06                       | 20.93                         |                     |             |  |  |
| 25              | QPSK       | 100        | 0            | 21.00                   | 21.12                       | 21.08                         |                     |             |  |  |
| 25              | QPSK       | 50         | 50           | 21.11                   | 21.11                       | 21.11                         |                     |             |  |  |
| 25              | QPSK       | 50         | 50           | 21.07                   | 21.04                       | 20.95                         |                     |             |  |  |
| 25              | QPSK       | 100        | 0            | 21.06                   | 21.05                       | 20.96                         |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 21.04                   | 21.08                       | 21.06                         |                     |             |  |  |
| 25              | QPSK       | 1          | 99           | 20.98                   | 21.06                       | 20.98                         | 21.9                | 0           |  |  |
| 25              | QPSK       | 50         | 50           | 21.06                   | 21.10                       | 21.03                         |                     |             |  |  |
| 25              | QPSK       | 50         | 50           | 21.03                   | 21.02                       | 20.95                         | 21.9                | 0           |  |  |
| 25              | QPSK       | 100        | 0            | 21.04                   | 21.09                       | 20.98                         |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 20.97                   | 21.03                       | 20.97                         |                     |             |  |  |
| 25              | QPSK       | 1          | 99           | 20.93                   | 21.01                       | 20.93                         | 20                  | 1.9         |  |  |
| 25              | QPSK       | 1          | 99           | 18.83                   | 18.95                       | 18.84                         |                     |             |  |  |
| 25              | QPSK       | 1          | 99           | 18.80                   | 18.91                       | 18.80                         |                     |             |  |  |
| 25              | QPSK       | 1          | 99           | 18.84                   | 18.98                       | 18.84                         |                     |             |  |  |
| 25              | QPSK       | 50         | 50           | 18.85                   | 18.82                       | 18.81                         |                     |             |  |  |
| 25              | QPSK       | 100        | 0            | 18.78                   | 18.98                       | 18.84                         |                     |             |  |  |
| Frequency (MHz) |            |            |              |                         |                             |                               |                     |             |  |  |
| 25              | QPSK       | 1          | 0            | 21.13                   | 21.65                       | 21.72.9                       |                     |             |  |  |
| 15              | QPSK       | 1          | 0            | 21.15                   | 21.67                       | 21.68                         |                     |             |  |  |
| 15              | QPSK       | 1          | 37           | 21.07                   | 21.18                       | 21.13                         | 21.9                | 0           |  |  |
| 15              | QPSK       | 1          | 37           | 21.08                   | 21.19                       | 21.14                         |                     |             |  |  |
| 15              | QPSK       | 36         | 0            | 20.96                   | 21.04                       | 21.02                         |                     |             |  |  |
| 15              | QPSK       | 36         | 36           | 21.08                   | 21.15                       | 21.02                         |                     |             |  |  |
| 15              | QPSK       | 36         | 36           | 20.98                   | 21.05                       | 21.03                         | 21.9                | 0           |  |  |
| 15              | QPSK       | 75         | 0            | 21.03                   | 21.07                       | 21.03                         |                     |             |  |  |
| 15              | QPSK       | 1          | 0            | 20.84                   | 21.08                       | 20.87                         |                     |             |  |  |
| 15              | QPSK       | 1          | 37           | 20.90                   | 21.04                       | 20.93                         | 21.9                | 0           |  |  |
| 15              | QPSK       | 1          | 37           | 20.91                   | 21.05                       | 20.94                         |                     |             |  |  |
| 15              | QPSK       | 36         | 0            | 20.83                   | 21.08                       | 20.88                         |                     |             |  |  |
| 15              | QPSK       | 36         | 36           | 21.06                   | 21.09                       | 20.91                         | 21.9                | 0           |  |  |
| 15              | QPSK       | 75         | 0            | 20.97                   | 21.07                       | 20.97                         |                     |             |  |  |
| 15              | QPSK       | 75         | 0            | 21.04                   | 21.08                       | 20.93                         |                     |             |  |  |
| 15              | QPSK       | 1          | 0            | 20.82                   | 21.13                       | 20.82                         |                     |             |  |  |
| 15              | QPSK       | 1          | 37           | 21.02                   | 21.09                       | 21.09                         | 21.9                | 0           |  |  |
| 15              | QPSK       | 1          | 37           | 21.03                   | 21.10                       | 21.10                         |                     |             |  |  |
| 15              | QPSK       | 36         | 0            | 20.89                   | 21.04                       | 20.95                         |                     |             |  |  |
| 15              | QPSK       | 36         | 36           | 21.10                   | 21.15                       | 20.79                         | 21.9                | 0           |  |  |
| 15              | QPSK       | 75         | 0            | 20.94                   | 21.08                       | 20.93                         |                     |             |  |  |
| 15              | 25QPSK     | 1          | 0            | 18.77                   | 18.88                       | 18.85                         |                     |             |  |  |
| 15              | 25QPSK     | 1          | 0            | 18.78                   | 18.84                       | 18.84                         | 20                  | 1.9         |  |  |

| Band 71_Ant 0   |            |         |           |             |             |             |               |           |  |  |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|---------------|-----------|--|--|
| RF (MHz)        | Modulation | RB Size | FS Offset | Power (dBm) | Power (dBm) | Power (dBm) | Turn-on (dBm) | Aggr (dB) |  |  |
| Channel         |            |         |           | 139322      | 139333      | 139352      |               |           |  |  |
| Frequency (MHz) |            |         |           | 873         | 881         | 888         |               |           |  |  |
| 20              | QPSK       | 1       | 0         | 23.21       | 23.32       | 23.16       |               |           |  |  |
| 20              | QPSK       | 1       | 8         | 23.21       | 23.32       | 23.16       | 24            | 0         |  |  |
| 20              | QPSK       | 1       | 89        | 23.02       | 23.20       | 23.20       |               |           |  |  |
| 20              | QPSK       | 50      | 0         | 23.06       | 23.20       | 23.17       |               |           |  |  |
| 20              | QPSK       | 50      | 24        | 23.21       | 23.25       | 23.20       | 24            | 0         |  |  |
| 20              | QPSK       | 50      | 8         | 23.06       | 23.20       | 23.17       |               |           |  |  |
| 20              | QPSK       | 100     | 0         | 23.18       | 23.22       | 23.18       |               |           |  |  |
| 20              | QPSK       | 100     | 8         | 23.04       | 23.26       | 23.10       | 24            | 0         |  |  |
| 20              | QPSK       | 100     | 89        | 23.05       | 23.21       | 23.20       |               |           |  |  |
| 20              | QPSK       | 100     | 8         | 23.08       | 23.20       | 23.19       |               |           |  |  |
| 20              | QPSK       | 50      | 0         | 23.06       | 23.20       | 23.17       |               |           |  |  |
| 20              | QPSK       | 50      | 24        | 23.07       | 23.20       | 23.17       | 23            |           |  |  |
| 20              | QPSK       | 50      | 8         | 23.06       | 23.20       | 23.19       |               |           |  |  |
| 20              | QPSK       | 100     | 0         | 23.24       | 23.28       | 23.18       |               |           |  |  |
| 20              | QPSK       | 100     | 8         | 23.13       | 23.28       | 23.22       |               |           |  |  |
| 20              | QPSK       | 100     | 89        | 23.07       | 23.21       | 23.20       |               |           |  |  |
| 20              | QPSK       | 100     | 8         | 23.24       | 23.27       | 23.20       |               |           |  |  |
| 20              | QPSK       | 50      | 0         | 23.36       | 23.41       | 23.33       |               |           |  |  |
| 20              | QPSK       | 50      | 24        | 23.36       | 23.41       | 23.33       | 22            | 2         |  |  |
| 20              | QPSK       | 50      | 8         | 23.36       | 23.41       | 23.33       |               |           |  |  |
| 20              | QPSK       | 100     | 0         | 23.64       | 23.61       | 23.43       |               |           |  |  |
| 20              | QPSK       | 100     | 8         | 23.43       | 23.50       | 23.45       |               |           |  |  |
| 20              | QPSK       | 100     | 89        | 23.44       | 23.50       | 23.45       |               |           |  |  |
| 20              | QPSK       | 100     | 8         | 23.44       | 23.50       | 23.45       |               |           |  |  |
| 20              | QPSK       | 50      | 0         | 23.57       | 23.60       | 23.55       |               |           |  |  |
| 20              | QPSK       | 50      | 24        | 23.40       | 23.46       | 23.40       | 23            |           |  |  |
| 20              | QPSK       | 50      | 8         | 23.40       | 23.46       | 23.40       |               |           |  |  |
| 20              | QPSK       | 100     | 0         | 23.40       | 23.46       | 23.40       | 24            | 4         |  |  |
| 20              | QPSK       | 100     | 8         | 23.42       | 23.48       | 23.38       |               |           |  |  |
| 20              | QPSK       | 100     | 89        | 23.43       | 23.50       | 23.45       |               |           |  |  |
| Channel         |            |         |           | 139357      | 139359      | 139364      | Turn-on (dBm) | Aggr (dB) |  |  |
| Frequency (MHz) |            |         |           | 893         | 895         | 898         |               |           |  |  |
| 15              | QPSK       | 1       | 0         | 23.21       | 23.28       | 23.14       |               |           |  |  |
| 15              | QPSK       | 1       | 87        | 23.02       | 23.00       | 23.11       | 24            | 0         |  |  |
| 15              | QPSK       | 1       | 74        | 23.08       | 23.03       | 23.04       |               |           |  |  |
| 15              | QPSK       | 1       | 89        | 23.07       | 23.03       | 23.04       |               |           |  |  |
| 15              | QPSK       | 36      | 20        | 23.03       | 23.03       | 23.18       | 24            | 0         |  |  |
| 15              | QPSK       | 36      | 59        | 23.07       | 23.09       | 23.03       |               |           |  |  |
| 15              | QPSK       | 36      | 8         | 23.14       | 23.12       | 23.04       | 24            | 0         |  |  |
| 15              | QPSK       | 1       | 0         | 23.00       | 23.00       | 23.11       |               |           |  |  |
| 15              | QPSK       | 1       | 87        | 23.07       | 23.70       | 23.22       | 24            | 0         |  |  |
| 15              | QPSK       | 1       | 74        | 23.02       | 23.09       | 23.03       |               |           |  |  |
| 15              | QPSK       | 1       | 89        | 23.00       | 23.01       | 23.03       |               |           |  |  |
| 15              | QPSK       | 36      | 20        | 23.03       | 23.12       | 23.07       | 23            | 1         |  |  |
| 15              | QPSK       | 36      | 59        | 23.11       | 23.09       | 23.05       |               |           |  |  |
| 15              | QPSK       | 36      | 8         | 23.08       | 23.05       | 23.04       |               |           |  |  |
| 15              | QPSK       | 1       | 0         | 23.00       | 23.00       | 23.18       |               |           |  |  |
| 15              | QPSK       | 1       | 27        | 23.02       | 23.00       | 23.21       | 23            | 1         |  |  |
| 15              | QPSK       | 1       | 87        | 23.07       | 23.70       | 23.22       |               |           |  |  |
| 15              | QPSK       | 36      | 20        | 23.12       | 23.42       | 23.42       |               |           |  |  |
| 15              | QPSK       | 36      | 59        | 23.10       | 23.10       | 23.45       |               |           |  |  |
| 15              | QPSK       | 36      | 20        | 23.30       | 23.30       | 23.45       | 22            | 2         |  |  |
| 15              | QPSK       | 36      | 59        | 23.70       | 23.59       | 23.21       |               |           |  |  |
| 15              | QPSK       | 36      | 8         | 23.10       | 23.10       | 23.45       |               |           |  |  |
| Channel         |            |         |           | 139372      | 139373      | 139384      | Turn-on (dBm) | Aggr (dB) |  |  |
| Frequency (MHz) |            |         |           | 908         | 909         | 912         |               |           |  |  |
| 10              | QPSK       | 1       | 0         | 23.21       | 23.09       | 23.04       |               |           |  |  |
| 10              | QPSK       | 1       | 8         | 23.21       | 23.09       | 23.04       | 24            | 0         |  |  |
| 10              | QPSK       | 1       | 89        | 23.10       | 23.08       | 23.08       |               |           |  |  |
| 10              | QPSK       | 25      | 0         | 23.01       | 23.15       | 23.20       | 24            | 0         |  |  |
| 10              | QPSK       | 25      | 24        | 23.20       | 23.23       | 23.21       |               |           |  |  |
| 10              | QPSK       | 25      | 25        | 23.04       | 23.10       | 23.08       |               |           |  |  |
| 10              | QPSK       | 50      | 0         | 23.21       | 23.05       | 23.03       |               |           |  |  |
| 10              | QPSK       | 1       | 0         | 23.07       | 23.27       | 23.04       |               |           |  |  |
| 10              | QPSK       | 1       | 8         | 23.07       | 23.27       | 23.04       | 24            | 0         |  |  |
| 10              | QPSK       | 1       | 89        | 23.08       | 23.29       | 23.03       |               |           |  |  |
| 10              | QPSK       | 25      | 0         | 23.05       | 23.08       | 23.26       |               |           |  |  |
| 10              | QPSK       | 25      | 24        | 23.17       | 23.17       | 23.21       | 24            | 0         |  |  |
| 10              | QPSK       | 25      | 25        | 23.23       | 23.05       | 23.00       |               |           |  |  |
| 10              | QPSK       | 50      | 0         | 23.42       | 23.50       | 23.22       | 23            | 1         |  |  |
| 10              | QPSK       | 50      | 24        | 23.50       | 23.59       | 23.27       |               |           |  |  |
| 10              | QPSK       | 50      | 8         | 23.00       | 23.26       | 23.21       |               |           |  |  |
| 10              | QPSK       | 1       | 0         | 23.12       | 23.21       | 23.03       | 23            | 1         |  |  |
| 10              | QPSK       | 1       | 89        | 23.02       | 23.16       | 23.09       |               |           |  |  |
| 10              | QPSK       | 1       | 8         | 23.02       | 23.16       | 23.09       |               |           |  |  |
| 10              | QPSK       | 25      | 0         | 23.37       | 23.17       | 23.50       |               |           |  |  |
| 10              | QPSK       | 25      | 24        | 23.17       | 23.21       | 23.25       | 22            | 2         |  |  |
| 10              | QPSK       | 25      | 25        | 23.41       | 23.19       | 23.08       |               |           |  |  |
| 10              | QPSK       | 50      | 0         | 23.60       | 23.19       | 23.47       |               |           |  |  |
| 10              | QPSK       | 50      | 24        | 23.60       | 23.19       | 23.47       | 23            | 1         |  |  |
| 10              | QPSK       | 50      | 8         | 23.60       | 23.19       | 23.47       |               |           |  |  |
| 10              | QPSK       | 1       | 0         | 23.37       | 23.21       | 23.03       | 24            | 4         |  |  |
| 10              | QPSK       | 1       | 89        | 23.02       | 23.16       | 23.09       |               |           |  |  |
| 10              | QPSK       | 25      | 0         | 23.37       | 23.36       | 23.15       |               |           |  |  |
| 10              | QPSK       | 25      | 24        | 23.41       | 23.41       | 23.21       | 24            | 4         |  |  |
| 10              | QPSK       | 25      | 25        | 23.38       | 23.42       | 23.40       |               |           |  |  |
| 10              | QPSK       | 50      | 0         | 23.46       | 23.46       | 23.36       |               |           |  |  |
| Channel         |            |         |           | 139392      | 139393      | 139404      | Turn-on (dBm) | Aggr (dB) |  |  |
| Frequency (MHz) |            |         |           | 916.5       | 916.5       | 916.5       |               |           |  |  |
| 5               | QPSK       | 1       | 0         | 23.00       | 23.20       | 23.90       |               |           |  |  |
| 5               | QPSK       | 1       | 12        | 23.18       | 23.00       | 23.26       | 24            | 0         |  |  |
| 5               | QPSK       | 1       | 24        | 23.18       | 23.00       | 23.26       |               |           |  |  |
| 5               | QPSK       | 12      | 0         | 23.00       | 23.21       | 23.93       |               |           |  |  |
| 5               | QPSK       | 12      | 7         | 23.13       | 23.22       | 23.23       | 24            | 0         |  |  |
| 5               | QPSK       | 12      | 13        | 23.05       | 23.07       | 23.10       |               |           |  |  |
| 5               | QPSK       | 12      | 19        | 23.12       | 23.12       | 23.20       |               |           |  |  |
| 5               | QPSK       | 1       | 0         | 23.07       | 23.00       | 23.22       |               |           |  |  |
| 5               | QPSK       | 1       | 12        | 23.05       | 23.02       | 23.11       | 24            | 0         |  |  |
| 5               | QPSK       | 1       | 24        | 23.16       | 23.16       | 23.26       |               |           |  |  |
| 5               | QPSK       | 12      | 0         | 23.10       | 23.20       | 23.26       |               |           |  |  |
| 5               | QPSK       | 12      | 7         | 23.09       | 23.21       | 23.21       | 23            | 1         |  |  |
| 5               | QPSK       | 1       | 0         | 23.13       | 23.24       | 23.28       |               |           |  |  |
| 5               | QPSK       | 1       | 12        | 23.03       | 23.25       | 23.26       | 23            | 1         |  |  |
| 5               | QPSK       | 1       | 24        | 23.27       | 23.25       | 23.27       |               |           |  |  |
| 5               | QPSK       | 12      | 0         | 23.25       | 23.40       | 23.42       |               |           |  |  |
| 5               | QPSK       | 12      | 7         | 23.30       | 23.30       | 23.33       | 22            | 2         |  |  |
| 5               | QPSK       | 12      | 13        | 23.23       | 23.17       | 23.40       |               |           |  |  |
| 5               | QPSK       | 12      | 19        | 23.17       | 23.17       | 23.40       | 24            | 4         |  |  |
| 5               | QPSK       | 1       | 0         | 23.15       | 23.05       | 23.26       |               |           |  |  |
| 5               | QPSK       | 1       | 12        | 23.11       | 23.05       | 23.17       |               |           |  |  |
| 5               | QPSK       | 1       | 24        | 23.41       | 23.41       | 23.45       | 24            | 4         |  |  |
| 5               | QPSK       | 12      | 0         | 23.36       | 23.36       | 23.33       |               |           |  |  |
| 5               | QPSK       | 12      | 7         | 23.40       | 23.40       | 23.42       | 23            | 1         |  |  |
| 5               | QPSK       | 12      | 13        | 23.47       | 23.47       | 23.46       |               |           |  |  |
| 5               | QPSK       | 12      | 19        | 23.23       | 23.17       | 23.40       | 24            | 4         |  |  |

| Band 71_Ant 1   |            |         |           |                   |                   |                   |                   |               |            |
|-----------------|------------|---------|-----------|-------------------|-------------------|-------------------|-------------------|---------------|------------|
| SRW [MHz]       | Modulation | RB Size | SR Offset | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Time-up (min) | Appts (dB) |
| Channel         |            |         |           | 130202            | 130307            | 130372            |                   |               |            |
| Frequency (MHz) |            |         |           |                   |                   |                   |                   |               |            |
| 25              | QPSK       | 1       | 0         | 25.85             | 22.85             | 22.85             |                   |               |            |
| 25              | QPSK       | 80      | 0         | 22.85             | 22.85             | 22.85             |                   |               |            |
| 25              | QPSK       | 1       | 0         | 22.05             | 22.05             | 22.05             |                   | 24            | 0          |
| 25              | QPSK       | 80      | 0         | 22.07             | 22.07             | 22.07             |                   |               |            |
| 25              | QPSK       | 80      | 24        | 22.87             | 22.87             | 22.75             |                   |               |            |
| 25              | QPSK       | 1       | 0         | 22.78             | 22.78             | 22.78             |                   | 24            | 0          |
| 25              | QPSK       | 100     | 0         | 22.78             | 22.60             | 22.60             |                   |               |            |
| 25              | IQPSK      | 1       | 0         | 22.84             | 22.60             | 22.61             |                   |               |            |
| 25              | IQPSK      | 80      | 0         | 22.84             | 22.60             | 22.60             |                   |               |            |
| 25              | IQPSK      | 1       | 0         | 22.75             | 22.75             | 22.75             |                   | 24            | 0          |
| 25              | IQPSK      | 80      | 0         | 22.75             | 22.75             | 22.61             |                   |               |            |
| 25              | IQPSK      | 80      | 24        | 21.74             | 21.74             | 21.74             |                   |               |            |
| 25              | IQPSK      | 100     | 0         | 21.65             | 21.65             | 21.65             |                   | 23            | 0          |
| 25              | IQPSK      | 100     | 0         | 21.63             | 21.91             | 21.93             |                   |               |            |
| 25              | IQPSK      | 1       | 0         | 21.66             | 22.02             | 21.69             |                   |               |            |
| 25              | IQPSK      | 1       | 0         | 21.67             | 22.02             | 21.67             |                   |               |            |
| 25              | IQPSK      | 1       | 0         | 22.00             | 21.90             | 21.83             |                   |               |            |
| 25              | IQPSK      | 10      | 0         | 20.70             | 20.91             | 20.70             |                   |               |            |
| 25              | IQPSK      | 10      | 0         | 20.68             | 20.91             | 20.68             |                   |               |            |
| 25              | IQPSK      | 100     | 0         | 20.78             | 20.80             | 20.57             |                   | 22            | 2          |
| 25              | IQPSK      | 100     | 0         | 20.66             | 20.78             | 20.66             |                   |               |            |
| 25              | IQPSK      | 1       | 0         | 18.41             | 18.46             | 18.46             |                   | 20            | 4          |
| 25              | IQPSK      | 1       | 0         | 18.42             | 18.46             | 18.46             |                   |               |            |
| 25              | IQPSK      | 1       | 0         | 18.32             | 18.61             | 18.36             |                   |               |            |
| 25              | IQPSK      | 80      | 0         | 18.42             | 18.35             | 18.49             |                   |               |            |
| 25              | IQPSK      | 10      | 0         | 18.34             | 18.41             | 18.34             |                   |               |            |
| 25              | IQPSK      | 10      | 0         | 18.30             | 18.52             | 18.42             |                   |               |            |
| 25              | IQPSK      | 100     | 0         | 18.48             | 18.50             | 18.39             |                   | 20            | 4          |
| Channel         |            |         |           | 131107            | 131202            | 131267            |                   |               |            |
| Frequency (MHz) |            |         |           |                   |                   |                   |                   |               |            |
| 15              | QPSK       | 1       | 0         | 22.41             | 22.83             | 22.35             |                   |               |            |
| 15              | QPSK       | 1       | 24        | 22.87             | 22.82             | 22.82             |                   |               |            |
| 15              | QPSK       | 1       | 74        | 22.31             | 22.61             | 22.49             |                   | 24            | 0          |
| 15              | QPSK       | 1       | 0         | 22.88             | 22.61             | 22.61             |                   |               |            |
| 15              | QPSK       | 80      | 20        | 22.84             | 22.63             | 22.78             |                   |               |            |
| 15              | QPSK       | 36      | 36        | 22.82             | 22.61             | 22.61             |                   |               |            |
| 15              | IQPSK      | 1       | 0         | 22.97             | 22.97             | 22.97             |                   |               |            |
| 15              | IQPSK      | 1       | 0         | 22.97             | 22.78             | 22.54             |                   |               |            |
| 15              | IQPSK      | 1       | 24        | 22.84             | 22.85             | 22.85             |                   | 24            | 0          |
| 15              | IQPSK      | 1       | 74        | 22.31             | 22.72             | 22.80             |                   |               |            |
| 15              | IQPSK      | 1       | 0         | 21.74             | 21.78             | 21.78             |                   |               |            |
| 15              | IQPSK      | 36      | 20        | 21.28             | 21.50             | 21.78             |                   | 23            | 1          |
| 15              | IQPSK      | 36      | 36        | 21.71             | 21.60             | 21.57             |                   |               |            |
| 15              | IQPSK      | 100     | 0         | 21.28             | 21.50             | 21.57             |                   |               |            |
| 15              | IQPSK      | 1       | 0         | 21.81             | 21.79             | 21.54             |                   |               |            |
| 15              | IQPSK      | 1       | 24        | 22.02             | 21.91             | 21.66             |                   | 23            | 1          |
| 15              | IQPSK      | 1       | 74        | 22.31             | 21.74             | 21.67             |                   |               |            |
| 15              | IQPSK      | 36      | 20        | 20.98             | 20.79             | 20.79             |                   |               |            |
| 15              | IQPSK      | 36      | 36        | 20.52             | 20.40             | 20.40             |                   | 22            | 2          |
| 15              | IQPSK      | 36      | 36        | 20.57             | 20.64             | 20.65             |                   |               |            |
| 15              | IQPSK      | 100     | 0         | 20.57             | 20.64             | 20.65             |                   |               |            |
| 15              | IQPSK      | 1       | 0         | 18.36             | 18.57             | 18.36             |                   |               |            |
| 15              | IQPSK      | 1       | 0         | 18.42             | 18.65             | 18.36             |                   |               |            |



| Band 38_Ant 1     |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
|-------------------|------------|---------|-----------|----------------------|-----------------------|----------------------|-----------------------|--------------------|----------|--|--|--|--|
| BW (MHz)          | Modulation | RF Band | RF Offset | Power Low Ch. (Freq) | Power High Ch. (Freq) | Power Low Ch. (Freq) | Power High Ch. (Freq) | Turn-on time (min) | APR (dB) |  |  |  |  |
| Channel           |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz)   |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| 37850 38050 38150 |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| 20                | QPSK       | 1       | 0         | 16.48                | 16.92                 | 16.92                | 16.92                 | 17.8               | 0        |  |  |  |  |
| 20                | QPSK       | 1       | 40        | 16.68                | 16.73                 | 16.82                | 16.82                 |                    |          |  |  |  |  |
| 20                | QPSK       | 30      | 80        | 16.82                | 16.39                 | 16.52                | 16.52                 |                    |          |  |  |  |  |
| 20                | QPSK       | 50      | 0         | 16.59                | 16.84                 | 16.86                | 16.86                 |                    |          |  |  |  |  |
| 20                | QPSK       | 50      | 24        | 16.64                | 16.71                 | 16.81                | 16.81                 | 17.8               | 0        |  |  |  |  |
| 20                | QPSK       | 50      | 50        | 16.67                | 16.57                 | 16.51                | 16.51                 |                    |          |  |  |  |  |
| 20                | QPSK       | 50      | 0         | 16.60                | 16.59                 | 16.48                | 16.48                 |                    |          |  |  |  |  |
| 20                | WQAM       | 1       | 0         | 16.62                | 16.51                 | 16.81                | 16.81                 |                    |          |  |  |  |  |
| 20                | WQAM       | 1       | 40        | 16.63                | 16.64                 | 16.80                | 16.80                 | 17.8               | 0        |  |  |  |  |
| 20                | WQAM       | 1       | 80        | 16.62                | 16.60                 | 16.47                | 16.47                 |                    |          |  |  |  |  |
| 20                | WQAM       | 50      | 0         | 16.64                | 16.53                 | 16.58                | 16.58                 |                    |          |  |  |  |  |
| 20                | WQAM       | 50      | 24        | 16.58                | 16.42                 | 16.63                | 16.63                 |                    |          |  |  |  |  |
| 20                | WQAM       | 50      | 50        | 16.62                | 16.56                 | 16.55                | 16.55                 | 17.8               | 0        |  |  |  |  |
| 20                | WQAM       | 100     | 0         | 16.56                | 16.41                 | 16.54                | 16.54                 |                    |          |  |  |  |  |
| 20                | DSSSFM     | 1       | 0         | 16.21                | 16.40                 | 16.42                | 16.42                 |                    |          |  |  |  |  |
| 20                | DSSSFM     | 1       | 40        | 16.62                | 16.60                 | 16.47                | 16.47                 |                    |          |  |  |  |  |
| 20                | DSSSFM     | 1       | 80        | 16.47                | 16.53                 | 16.48                | 16.48                 | 17.8               | 0        |  |  |  |  |
| 20                | DSSSFM     | 30      | 80        | 16.47                | 16.56                 | 16.57                | 16.57                 |                    |          |  |  |  |  |
| 20                | DSSSFM     | 50      | 24        | 16.54                | 16.62                 | 16.52                | 16.52                 |                    |          |  |  |  |  |
| 20                | DSSSFM     | 50      | 50        | 16.58                | 16.45                 | 16.48                | 16.48                 |                    |          |  |  |  |  |
| 20                | DSSSFM     | 100     | 0         | 16.48                | 16.63                 | 16.43                | 16.43                 | Turn-on time (min) | APR (dB) |  |  |  |  |
| Channel           |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| 37775 38050 38175 |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz)   |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| 15                | QPSK       | 1       | 0         | 16.48                | 16.36                 | 16.73                | 16.73                 | 17.8               | 0        |  |  |  |  |
| 15                | QPSK       | 1       | 37        | 16.51                | 16.71                 | 16.52                | 16.52                 |                    |          |  |  |  |  |
| 15                | QPSK       | 1       | 74        | 16.45                | 16.48                 | 16.48                | 16.48                 |                    |          |  |  |  |  |
| 15                | QPSK       | 30      | 80        | 16.52                | 16.39                 | 16.54                | 16.54                 |                    |          |  |  |  |  |
| 15                | QPSK       | 30      | 20        | 16.60                | 16.71                 | 16.48                | 16.48                 | 17.8               | 0        |  |  |  |  |
| 15                | QPSK       | 30      | 36        | 16.54                | 16.50                 | 16.44                | 16.44                 |                    |          |  |  |  |  |
| 15                | QPSK       | 30      | 52        | 16.62                | 16.56                 | 16.55                | 16.55                 |                    |          |  |  |  |  |
| 15                | WQAM       | 1       | 0         | 16.57                | 16.42                 | 16.48                | 16.48                 |                    |          |  |  |  |  |
| 15                | WQAM       | 1       | 37        | 16.54                | 16.63                 | 16.52                | 16.52                 | 17.8               | 0        |  |  |  |  |
| 15                | WQAM       | 1       | 74        | 16.45                | 16.38                 | 16.28                | 16.28                 |                    |          |  |  |  |  |
| 15                | WQAM       | 30      | 80        | 16.62                | 16.53                 | 16.45                | 16.45                 |                    |          |  |  |  |  |
| 15                | WQAM       | 30      | 20        | 16.45                | 16.32                 | 16.35                | 16.35                 |                    |          |  |  |  |  |
| 15                | WQAM       | 30      | 36        | 16.63                | 16.49                 | 16.42                | 16.42                 | 17.8               | 0        |  |  |  |  |
| 15                | WQAM       | 30      | 52        | 16.65                | 16.51                 | 16.47                | 16.47                 |                    |          |  |  |  |  |
| 15                | WQAM       | 1       | 0         | 16.38                | 16.47                 | 16.47                | 16.47                 |                    |          |  |  |  |  |
| 15                | WQAM       | 1       | 37        | 16.42                | 16.42                 | 16.25                | 16.25                 |                    |          |  |  |  |  |
| 15                | WQAM       | 30      | 80        | 16.62                | 16.53                 | 16.45                | 16.45                 | 17.8               | 0        |  |  |  |  |
| 15                | WQAM       | 30      | 20        | 16.57                | 16.42                 | 16.45                | 16.45                 |                    |          |  |  |  |  |
| 15                | WQAM       | 30      | 36        | 16.55                | 16.52                 | 16.46                | 16.46                 |                    |          |  |  |  |  |
| 15                | WQAM       | 30      | 52        | 16.58                | 16.57                 | 16.52                | 16.52                 |                    |          |  |  |  |  |
| 15                | WQAM       | 50      | 0         | 16.66                | 16.25                 | 16.27                | 16.27                 | 17.8               | 0        |  |  |  |  |
| 15                | WQAM       | 50      | 24        | 16.54                | 16.40                 | 16.26                | 16.26                 |                    |          |  |  |  |  |
| 15                | DSSSFM     | 1       | 0         | 16.04                | 16.40                 | 16.26                | 16.26                 |                    |          |  |  |  |  |
| 15                | DSSSFM     | 1       | 37        | 16.57                | 16.53                 | 16.60                | 16.60                 |                    |          |  |  |  |  |
| 15                | DSSSFM     | 1       | 74        | 16.45                | 16.41                 | 16.38                | 16.38                 | Turn-on time (min) | APR (dB) |  |  |  |  |
| Channel           |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| 37800 38050 38050 |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz)   |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| 10                | QPSK       | 1       | 0         | 16.48                | 16.68                 | 16.61                | 16.61                 | 24                 | 0        |  |  |  |  |
| 10                | QPSK       | 1       | 25        | 16.50                | 16.61                 | 16.62                | 16.62                 |                    |          |  |  |  |  |
| 10                | QPSK       | 1       | 40        | 16.58                | 16.59                 | 16.58                | 16.58                 |                    |          |  |  |  |  |
| 10                | QPSK       | 25      | 0         | 16.62                | 16.58                 | 16.49                | 16.49                 |                    |          |  |  |  |  |
| 10                | QPSK       | 12      | 12        | 16.62                | 16.58                 | 16.49                | 16.49                 | 24                 | 0        |  |  |  |  |
| 10                | QPSK       | 25      | 25        | 16.59                | 16.45                 | 16.42                | 16.42                 |                    |          |  |  |  |  |
| 10                | QPSK       | 50      | 0         | 16.57                | 16.58                 | 16.36                | 16.36                 |                    |          |  |  |  |  |
| 10                | WQAM       | 1       | 0         | 16.45                | 16.62                 | 16.62                | 16.62                 |                    |          |  |  |  |  |
| 10                | WQAM       | 1       | 25        | 16.57                | 16.61                 | 16.53                | 16.53                 | 24                 | 0        |  |  |  |  |
| 10                | WQAM       | 1       | 40        | 16.41                | 16.37                 | 16.37                | 16.37                 |                    |          |  |  |  |  |
| 10                | WQAM       | 25      | 0         | 16.62                | 16.49                 | 16.53                | 16.53                 |                    |          |  |  |  |  |
| 10                | WQAM       | 25      | 12        | 16.57                | 16.34                 | 16.55                | 16.55                 |                    |          |  |  |  |  |
| 10                | WQAM       | 25      | 25        | 16.53                | 16.49                 | 16.40                | 16.40                 | 24                 | 0        |  |  |  |  |
| 10                | WQAM       | 50      | 0         | 16.56                | 16.48                 | 16.31                | 16.31                 |                    |          |  |  |  |  |
| 10                | WQAM       | 50      | 0         | 16.45                | 16.46                 | 16.38                | 16.38                 |                    |          |  |  |  |  |
| 10                | WQAM       | 1       | 25        | 16.30                | 16.59                 | 16.21                | 16.21                 |                    |          |  |  |  |  |
| 10                | WQAM       | 1       | 40        | 16.54                | 16.34                 | 16.58                | 16.58                 | 24                 | 0        |  |  |  |  |
| 10                | WQAM       | 25      | 0         | 16.64                | 16.59                 | 16.61                | 16.61                 |                    |          |  |  |  |  |
| 10                | WQAM       | 25      | 12        | 16.59                | 16.51                 | 16.42                | 16.42                 |                    |          |  |  |  |  |
| 10                | WQAM       | 25      | 25        | 16.66                | 16.67                 | 16.38                | 16.38                 |                    |          |  |  |  |  |
| 10                | WQAM       | 50      | 0         | 16.63                | 16.62                 | 16.46                | 16.46                 | 24                 | 0        |  |  |  |  |
| 10                | WQAM       | 50      | 1         | 16.20                | 16.28                 | 16.25                | 16.25                 |                    |          |  |  |  |  |
| 10                | DSSSFM     | 1       | 25        | 16.54                | 16.59                 | 16.37                | 16.37                 |                    |          |  |  |  |  |
| 10                | DSSSFM     | 1       | 40        | 16.20                | 16.59                 | 16.24                | 16.24                 | 24                 | 0        |  |  |  |  |
| 10                | DSSSFM     | 25      | 0         | 16.62                | 16.61                 | 16.36                | 16.36                 |                    |          |  |  |  |  |
| 10                | DSSSFM     | 25      | 12        | 16.56                | 16.38                 | 16.26                | 16.26                 |                    |          |  |  |  |  |
| 10                | DSSSFM     | 25      | 25        | 16.52                | 16.26                 | 16.48                | 16.48                 |                    |          |  |  |  |  |
| 10                | DSSSFM     | 50      | 0         | 16.45                | 16.55                 | 16.39                | 16.39                 | Turn-on time (min) | APR (dB) |  |  |  |  |
| Channel           |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| 37775 38050 38225 |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| Frequency (MHz)   |            |         |           |                      |                       |                      |                       |                    |          |  |  |  |  |
| 5                 | QPSK       | 1       | 0         | 16.20                | 16.65                 | 16.47                | 16.47                 | 17.8               | 0        |  |  |  |  |
| 5                 | QPSK       | 12      | 12        | 16.50                | 16.52                 | 16.50                | 16.50                 |                    |          |  |  |  |  |
| 5                 | QPSK       | 1       | 24        | 16.48                | 16.49                 | 16.47                | 16.47                 |                    |          |  |  |  |  |
| 5                 | QPSK       | 12      | 0         | 16.47                | 16.53                 | 16.54                | 16.54                 |                    |          |  |  |  |  |
| 5                 | QPSK       | 1       | 7         | 16.60                | 16.62                 | 16.59                | 16.59                 | 17.8               | 0        |  |  |  |  |
| 5                 | QPSK       | 12      | 13        | 16.54                | 16.52                 | 16.42                | 16.42                 |                    |          |  |  |  |  |
| 5                 | QPSK       | 20      | 0         | 16.53                | 16.59                 | 16.39                | 16.39                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 1       | 0         | 16.50                | 16.49                 | 16.38                | 16.38                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 1       | 24        | 16.45                | 16.44                 | 16.26                | 16.26                 | 17.8               | 0        |  |  |  |  |
| 5                 | WQAM       | 12      | 0         | 16.56                | 16.51                 | 16.48                | 16.48                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 12      | 7         | 16.60                | 16.62                 | 16.48                | 16.48                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 12      | 13        | 16.62                | 16.45                 | 16.41                | 16.41                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 25      | 0         | 16.56                | 16.53                 | 16.49                | 16.49                 | 17.8               | 0        |  |  |  |  |
| 5                 | WQAM       | 1       | 0         | 16.61                | 16.36                 | 16.73                | 16.73                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 1       | 12        | 16.20                | 16.52                 | 16.18                | 16.18                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 1       | 24        | 16.71                | 16.41                 | 16.53                | 16.53                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 12      | 0         | 16.54                | 16.71                 | 16.58                | 16.58                 | 17.8               | 0        |  |  |  |  |
| 5                 | WQAM       | 12      | 7         | 16.66                | 16.46                 | 16.51                | 16.51                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 12      | 13        | 16.57                | 16.64                 | 16.45                | 16.45                 |                    |          |  |  |  |  |
| 5                 | WQAM       | 25      | 0         | 16.56                | 16.47                 | 16.57                | 16.57                 |                    |          |  |  |  |  |
| 5                 | DSSSFM     | 1       | 0         | 16.19                | 16.44                 | 16.28                | 16.28                 | 17.8               | 0        |  |  |  |  |
| 5                 | DSSSFM     | 1       | 12        | 16.43                | 16.53                 | 16.43                | 16.43                 |                    |          |  |  |  |  |
| 5                 | DSSSFM     | 1       | 24        | 16.40                | 16.26                 | 16.38                | 16.38                 |                    |          |  |  |  |  |
| 5                 | DSSSFM     | 12      | 0         | 16.55                | 16.48                 | 16.62                | 16.62                 |                    |          |  |  |  |  |
| 5                 | DSSSFM     | 12      | 7         | 16.56                | 16.37                 | 16.57                | 16.57                 | 17.8               | 0        |  |  |  |  |
| 5                 | DSSSFM     | 12      | 13        | 16.52                | 16.32                 | 16.48                | 16.48                 |                    |          |  |  |  |  |
| 5                 | DSSSFM     | 25      | 0         | 16.25                | 16.36                 | 16.26                | 16.26                 |                    |          |  |  |  |  |



| Band 41 (HPUE)_Ant 1 |            |          |           |                     |                         |                     |                          |                      |                    |           |  |  |
|----------------------|------------|----------|-----------|---------------------|-------------------------|---------------------|--------------------------|----------------------|--------------------|-----------|--|--|
| EW (MHz)             | Modulation | RB (MHz) | RB Offset | Power Low Ch./Freq. | Power Low-Mid Ch./Freq. | Power Mid Ch./Freq. | Power High-Mid Ch./Freq. | Power High Ch./Freq. | Turn-on time (sec) | MPLN (dB) |  |  |
| Channel              |            |          |           |                     |                         |                     |                          |                      |                    |           |  |  |
| Frequency (MHz)      |            |          |           | 36750               | 40185                   | 40605               | 41055                    | 41480                |                    |           |  |  |
|                      |            |          |           | 2008                | 20618                   | 20551               | 20818                    | 21051                |                    |           |  |  |
| 20                   | QPSK       | 1        | 0         | 18.26               | 18.27                   | 18.48               | 18.15                    | 18.13                |                    |           |  |  |
| 20                   | QPSK       | 1        | 40        | 18.40               | 18.58                   | 18.62               | 18.31                    | 18.38                | 19.4               | 0         |  |  |
| 20                   | QPSK       | 1        | 80        | 18.23               | 18.37                   | 18.41               | 18.28                    | 18.17                |                    |           |  |  |
| 20                   | QPSK       | 50       | 24        | 18.38               | 18.48                   | 18.43               | 18.19                    | 18.13                |                    |           |  |  |
| 20                   | QPSK       | 50       | 50        | 18.43               | 18.55                   | 18.58               | 18.28                    | 18.35                | 19.4               | 0         |  |  |
| 20                   | QPSK       | 50       | 80        | 18.26               | 18.55                   | 18.51               | 18.17                    | 18.14                |                    |           |  |  |
| 20                   | QPSK       | 100      | 0         | 18.40               | 18.45                   | 18.54               | 18.28                    | 18.38                |                    |           |  |  |
| 20                   | 16QAM      | 1        | 0         | 18.40               | 18.48                   | 18.46               | 18.11                    | 18.30                |                    |           |  |  |
| 20                   | 16QAM      | 1        | 40        | 18.32               | 18.54                   | 18.48               | 18.27                    | 18.33                | 19.4               | 0         |  |  |
| 20                   | 16QAM      | 1        | 80        | 18.44               | 18.40                   | 18.16               | 18.16                    | 18.20                |                    |           |  |  |
| 20                   | 16QAM      | 50       | 0         | 18.34               | 18.52                   | 18.48               | 18.11                    | 18.15                |                    |           |  |  |
| 20                   | 16QAM      | 50       | 24        | 18.30               | 18.55                   | 18.55               | 18.23                    | 18.19                | 19.4               | 0         |  |  |
| 20                   | 16QAM      | 50       | 50        | 18.43               | 18.57                   | 18.45               | 18.35                    | 18.30                |                    |           |  |  |
| 20                   | 16QAM      | 100      | 0         | 18.40               | 18.43                   | 18.56               | 18.22                    | 18.28                |                    |           |  |  |
| 20                   | 8AGM       | 1        | 0         | 18.44               | 18.53                   | 18.33               | 18.13                    | 18.13                |                    |           |  |  |
| 20                   | 8AGM       | 1        | 40        | 18.40               | 18.45                   | 18.50               | 18.22                    | 18.30                | 19.4               | 0         |  |  |
| 20                   | 8AGM       | 1        | 80        | 18.34               | 18.57                   | 18.45               | 18.25                    | 18.24                |                    |           |  |  |
| 20                   | 8AGM       | 50       | 0         | 18.34               | 18.52                   | 18.48               | 18.11                    | 18.15                |                    |           |  |  |
| 20                   | 8AGM       | 50       | 24        | 18.30               | 18.55                   | 18.55               | 18.23                    | 18.19                | 19.4               | 0         |  |  |
| 20                   | 8AGM       | 50       | 50        | 18.44               | 18.40                   | 18.16               | 18.16                    | 18.20                |                    |           |  |  |
| 20                   | 8AGM       | 100      | 0         | 18.37               | 18.49                   | 18.49               | 18.27                    | 18.26                |                    |           |  |  |
| 20                   | 256QAM     | 1        | 0         | 18.20               | 18.18                   | 18.35               | 18.17                    | 18.21                |                    |           |  |  |
| 20                   | 256QAM     | 1        | 40        | 18.34               | 18.43                   | 18.39               | 18.16                    | 18.32                | 19.4               | 0         |  |  |
| 20                   | 256QAM     | 1        | 80        | 18.25               | 18.44                   | 18.39               | 18.25                    | 18.18                |                    |           |  |  |
| 20                   | 256QAM     | 1        | 120       | 18.22               | 18.23                   | 18.28               | 18.25                    | 18.15                |                    |           |  |  |
| 20                   | 256QAM     | 50       | 0         | 18.31               | 18.45                   | 18.38               | 18.10                    | 18.05                |                    |           |  |  |
| 20                   | 256QAM     | 50       | 24        | 18.33               | 18.43                   | 18.35               | 18.27                    | 18.30                | 19.4               | 0         |  |  |
| 20                   | 256QAM     | 50       | 50        | 18.40               | 18.39                   | 18.45               | 18.18                    | 18.20                |                    |           |  |  |
| 20                   | 256QAM     | 100      | 0         | 18.33               | 18.40                   | 18.34               | 18.28                    | 18.24                |                    |           |  |  |
| Channel              |            |          |           |                     |                         |                     |                          |                      |                    |           |  |  |
| Frequency (MHz)      |            |          |           | 36750               | 40173                   | 40600               | 41060                    | 41540                | Turn-on time (sec) | MPLN (dB) |  |  |
| 15                   | QPSK       | 1        | 0         | 18.18               | 18.37                   | 18.37               | 18.12                    | 18.03                |                    |           |  |  |
| 15                   | QPSK       | 1        | 37        | 18.38               | 18.47                   | 18.51               | 18.29                    | 18.38                | 19.4               | 0         |  |  |
| 15                   | QPSK       | 1        | 74        | 18.23               | 18.28                   | 18.34               | 18.23                    | 18.18                |                    |           |  |  |
| 15                   | QPSK       | 36       | 0         | 18.35               | 18.43                   | 18.46               | 18.16                    | 18.18                | 19.4               | 0         |  |  |
| 15                   | QPSK       | 36       | 20        | 18.38               | 18.44                   | 18.53               | 18.24                    | 18.30                |                    |           |  |  |
| 15                   | QPSK       | 36       | 36        | 18.34               | 18.43                   | 18.38               | 18.17                    | 18.03                |                    |           |  |  |
| 15                   | QPSK       | 75       | 0         | 18.30               | 18.40                   | 18.40               | 18.17                    | 18.40                |                    |           |  |  |
| 15                   | 16QAM      | 1        | 0         | 18.48               | 18.20                   | 18.37               | 18.07                    | 18.31                |                    |           |  |  |
| 15                   | 16QAM      | 1        | 37        | 18.28               | 18.54                   | 18.41               | 18.20                    | 18.46                | 19.4               | 0         |  |  |
| 15                   | 16QAM      | 1        | 74        | 18.37               | 18.41                   | 18.35               | 18.48                    | 18.44                |                    |           |  |  |
| 15                   | 16QAM      | 36       | 0         | 18.30               | 18.50                   | 18.54               | 18.11                    | 18.14                |                    |           |  |  |
| 15                   | 16QAM      | 36       | 20        | 18.24               | 18.55                   | 18.43               | 18.21                    | 18.14                |                    |           |  |  |
| 15                   | 16QAM      | 36       | 36        | 18.43               | 18.51                   | 18.32               | 18.32                    | 18.10                | 19.4               | 0         |  |  |
| 15                   | 16QAM      | 75       | 0         | 18.38               | 18.43                   | 18.34               | 18.20                    | 18.25                |                    |           |  |  |
| 15                   | 8AGM       | 1        | 0         | 18.38               | 18.28                   | 18.08               | 18.02                    | 18.19                |                    |           |  |  |
| 15                   | 8AGM       | 1        | 37        | 18.51               | 18.48                   | 18.36               | 18.25                    | 18.08                | 19.4               | 0         |  |  |
| 15                   | 8AGM       | 1        | 74        | 18.48               | 18.53                   | 18.41               | 18.18                    | 18.18                |                    |           |  |  |
| 15                   | 8AGM       | 36       | 0         | 18.34               | 18.24                   | 18.52               | 18.01                    | 18.19                |                    |           |  |  |
| 15                   | 8AGM       | 36       | 20        | 18.40               | 18.29                   | 18.38               | 18.06                    | 18.30                | 19.4               | 0         |  |  |
| 15                   | 8AGM       | 36       | 36        | 18.52               | 18.43                   | 18.51               | 18.13                    | 18.17                |                    |           |  |  |
| 15                   | 8AGM       | 75       | 0         | 18.30               | 18.50                   | 18.52               | 18.14                    | 18.15                |                    |           |  |  |
| 15                   | 256QAM     | 1        | 0         | 18.13               | 18.23                   | 18.36               | 18.14                    | 17.94                |                    |           |  |  |
| 15                   | 256QAM     | 1        | 37        | 18.38               | 18.50                   | 18.41               | 18.21                    | 18.08                | 19.4               | 0         |  |  |
| 15                   | 256QAM     | 1        | 74        | 18.25               | 18.37                   | 18.34               | 18.18                    | 18.10                |                    |           |  |  |
| 15                   | 256QAM     | 36       | 0         | 18.10               | 18.37                   | 18.35               | 18.13                    | 18.11                |                    |           |  |  |
| 15                   | 256QAM     | 36       | 20        | 18.17               | 18.47                   | 18.49               | 18.17                    | 18.13                | 19.4               | 0         |  |  |
| 15                   | 256QAM     | 36       | 36        | 18.36               | 18.47                   | 18.45               | 18.18                    | 18.18                |                    |           |  |  |
| 15                   | 256QAM     | 75       | 0         | 18.17               | 18.17                   | 18.59               | 18.20                    | 18.17                |                    |           |  |  |
| Channel              |            |          |           |                     |                         |                     |                          |                      |                    |           |  |  |
| Frequency (MHz)      |            |          |           | 36750               | 40160                   | 40600               | 41060                    | 41540                | Turn-on time (sec) | MPLN (dB) |  |  |
| 10                   | QPSK       | 1        | 0         | 18.08               | 18.03                   | 18.35               | 18.11                    | 18.03                |                    |           |  |  |
| 10                   | QPSK       | 1        | 25        | 18.28               | 18.48                   | 18.60               | 18.28                    | 18.36                | 19.4               | 0         |  |  |
| 10                   | QPSK       | 1        | 40        | 18.20               | 18.31                   | 18.41               | 18.21                    | 18.14                |                    |           |  |  |
| 10                   | QPSK       | 25       | 0         | 18.26               | 18.48                   | 18.50               | 18.17                    | 18.08                |                    |           |  |  |
| 10                   | QPSK       | 25       | 12        | 18.41               | 18.52                   | 18.48               | 18.15                    | 18.10                | 19.4               | 0         |  |  |
| 10                   | QPSK       | 25       | 25        | 18.31               | 18.47                   | 18.43               | 18.08                    | 18.01                |                    |           |  |  |
| 10                   | QPSK       | 50       | 0         | 18.27               | 18.33                   | 18.43               | 18.15                    | 18.28                |                    |           |  |  |
| 10                   | QPSK       | 50       | 1         | 18.42               | 18.18                   | 18.18               | 18.18                    | 18.18                | 19.4               | 0         |  |  |
| 10                   | 16QAM      | 1        | 25        | 18.34               | 18.51                   | 18.42               | 18.17                    | 18.30                |                    |           |  |  |
| 10                   | 16QAM      | 1        | 40        | 18.35               | 18.32                   | 18.41               | 18.53                    | 18.48                | 19.4               | 0         |  |  |
| 10                   | 16QAM      | 25       | 0         | 18.30               | 18.30                   | 18.41               | 18.04                    | 17.90                |                    |           |  |  |
| 10                   | 16QAM      | 25       | 12        | 18.32               | 18.48                   | 18.48               | 18.20                    | 18.08                | 19.4               | 0         |  |  |
| 10                   | 16QAM      | 25       | 25        | 18.45               | 18.34                   | 18.34               | 18.29                    | 18.15                |                    |           |  |  |
| 10                   | 16QAM      | 50       | 0         | 18.40               | 18.32                   | 18.44               | 18.12                    | 18.26                |                    |           |  |  |
| 10                   | 8AGM       | 1        | 40        | 18.30               | 18.55                   | 18.17               | 18.14                    | 18.06                |                    |           |  |  |
| 10                   | 8AGM       | 1        | 25        | 18.36               | 18.42                   | 18.38               | 18.06                    | 18.30                | 19.4               | 0         |  |  |
| 10                   | 8AGM       | 1        | 40        | 18.50               | 18.52                   | 18.30               | 18.55                    | 18.53                |                    |           |  |  |
| 10                   | 8AGM       | 25       | 0         | 18.21               | 18.30                   | 18.21               | 18.02                    | 18.20                |                    |           |  |  |
| 10                   | 8AGM       | 25       | 12        | 18.46               | 18.28                   | 18.32               | 18.08                    | 18.08                | 19.4               | 0         |  |  |
| 10                   | 8AGM       | 25       | 25        | 18.51               | 18.38                   | 18.46               | 18.08                    | 18.13                |                    |           |  |  |
| 10                   | 8AGM       | 50       | 0         | 18.40               | 18.47                   | 18.25               | 18.34                    | 18.36                |                    |           |  |  |
| 10                   | 256QAM     | 1        | 0         | 18.04               | 18.04                   | 18.25               | 18.22                    | 17.90                |                    |           |  |  |
| 10                   | 256QAM     | 1        | 25        | 18.28               | 18.30                   | 18.34               | 18.13                    | 18.35                | 19.4               | 0         |  |  |
| 10                   | 256QAM     | 1        | 40        | 18.11               | 18.13                   | 18.35               | 18.24                    | 17.90                |                    |           |  |  |
| 10                   | 256QAM     | 25       | 0         | 18.10               | 18.30                   | 18.41               | 18.04                    | 17.90                | 19.4               | 0         |  |  |
| 10                   | 256QAM     | 25       | 12        | 18.14               | 18.24                   | 18.30               | 18.01                    | 18.24                |                    |           |  |  |
| 10                   | 256QAM     | 25       | 25        | 18.16               | 18.52                   | 18.23               | 18.16                    | 18.02                |                    |           |  |  |
| 10                   | 256QAM     | 50       | 0         | 18.35               | 18.20                   | 18.47               | 18.01                    | 18.04                |                    |           |  |  |
| Channel              |            |          |           |                     |                         |                     |                          |                      |                    |           |  |  |
| Frequency (MHz)      |            |          |           | 40410               | 40410                   | 40410               | 40410                    | 40410                | Turn-on time (sec) | MPLN (dB) |  |  |
| 5                    | QPSK       | 1        | 0         | 18.14               | 18.22                   | 18.31               | 18.17                    | 18.18                |                    |           |  |  |
| 5                    | QPSK       | 1        | 10        | 18.45               | 18.54                   | 18.50               | 18.31                    | 18.30                | 19.4               | 0         |  |  |
| 5                    | QPSK       | 1        | 24        | 18.11               | 18.23                   | 18.28               | 18.00                    | 18.17                | 18.13              |           |  |  |
| 5                    | QPSK       | 12       | 0         | 18.33               | 18.49                   | 18.30               | 18.14                    | 18.08                |                    |           |  |  |
| 5                    | QPSK       | 12       | 7         | 18.42               | 18.54                   | 18.48               | 18.21                    | 18.30                |                    |           |  |  |
| 5                    | QPSK       | 12       | 13        | 18.30               | 18.48                   | 18.39               | 18.14                    | 18.13                | 19.4               | 0         |  |  |
| 5                    | QPSK       | 25       | 0         | 18.40               | 18.41                   | 18.42               | 18.23                    | 18.15                |                    |           |  |  |
| 5                    | 16QAM      | 1        | 0         | 18.49               | 18.27                   | 18.44               | 17.99                    | 18.31                |                    |           |  |  |
| 5                    | 16QAM      | 1        | 10        | 18.27               | 18.41                   | 18.25               | 18.14                    | 18.40                | 19.4               | 0         |  |  |
| 5                    | 16QAM      | 1        | 24        | 18.37               | 18.39                   | 18.28               | 18.06                    | 18.43                |                    |           |  |  |
| 5                    | 16QAM      | 12       | 0         | 18.25               | 18.48                   | 18.34               | 18.02                    | 18.12                |                    |           |  |  |
| 5                    | 16QAM      | 12       | 13        | 18.25               | 18.43                   | 18.30               | 18.10                    | 18.08                |                    |           |  |  |
| 5                    | 16QAM      | 12       | 13        | 18.41               | 18.57                   | 18.39               | 18.28                    | 18.08                | 19.4               | 0         |  |  |
| 5                    | 16QAM      | 25       | 0         | 18.38               | 18.35                   | 18.56               | 18.20                    | 18.27                |                    |           |  |  |
| 5                    | 8AGM       | 1        | 0         | 18.23               | 18.30                   | 18.26               | 18.02                    | 18.13                |                    |           |  |  |
| 5                    | 8AGM       | 1        | 10        | 18.19               | 18.37                   | 18.51               | 18.30                    | 18.13                | 19.4               | 0         |  |  |
| 5                    | 8AGM       | 1        | 24        | 18.12               | 18.39                   | 18.32               | 18.30                    | 18.60                |                    |           |  |  |
| 5                    | 8AGM       | 12       | 0         | 18.14               | 18.32                   | 18.49               | 18.04                    | 18.17                |                    |           |  |  |
| 5                    | 8AGM       | 12       | 10        | 18.24               | 18.43                   | 18.23               | 18.01                    | 18.21                | 19.4               | 0         |  |  |
| 5                    | 8AGM       | 12       | 13        | 18.21               | 18.43                   | 18.29               | 18.33                    | 18.13                |                    |           |  |  |
| 5                    | 256QAM     | 1        | 0         | 18.14               | 18.12                   | 18.13               | 18.08                    | 18.22                |                    |           |  |  |
| 5                    | 256QAM     | 1        | 12        | 18.38               | 18.58                   | 18.50               | 18.21                    | 18.12                | 19.4               | 0         |  |  |
| 5                    | 256QAM     | 1        | 24        | 18.21               | 18.16                   | 18.10               | 18.31                    | 18.11                |                    |           |  |  |
| 5                    | 256QAM     | 12       | 0         | 18.34               | 18.21                   | 18.41               | 18.13                    | 18.11                |                    |           |  |  |
| 5                    | 256QAM     | 12       | 7         | 18.30               | 18.17                   | 18.33               | 18.09                    | 18.17                | 19.4               | 0         |  |  |
| 5                    | 256QAM     | 12       | 10        | 18.25               | 18.36                   | 18.28               | 18.28                    | 18.28                |                    |           |  |  |
| 5                    | 256QAM     | 12       | 13        | 18.36               | 18.27                   | 18.51               | 18.05                    | 18.05                |                    |           |  |  |



| Band 48_Ant 3           |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
|-------------------------|------------|---------|-----------|----------------------------|----------------------------|-----------------------------|----------------------|---------------------|----------|--|--|--|--|--|--|
| BW (MHz)                | Modulation | RB Rate | RB Offset | Power Low Freq (Ch / Freq) | Power Low Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Turn-up time (secs) | MFR (dB) |  |  |  |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 55500 55500 56100 56600 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 20                      | QPSK       | 1       | 0         | 18.74                      | 18.70                      | 18.64                       | 18.73                | 19.4                | 0        |  |  |  |  |  |  |
| 20                      | QPSK       | 1       | 46        | 18.83                      | 18.87                      | 18.91                       | 18.80                |                     |          |  |  |  |  |  |  |
| 20                      | QPSK       | 50      | 0         | 18.80                      | 18.84                      | 18.74                       | 18.78                |                     |          |  |  |  |  |  |  |
| 20                      | QPSK       | 50      | 24        | 18.90                      | 18.84                      | 18.89                       | 18.87                |                     |          |  |  |  |  |  |  |
| 20                      | QPSK       | 50      | 50        | 18.84                      | 18.88                      | 18.70                       | 18.77                | 19.4                | 0        |  |  |  |  |  |  |
| 20                      | QPSK       | 100     | 0         | 18.93                      | 18.88                      | 18.84                       | 18.88                |                     |          |  |  |  |  |  |  |
| 20                      | QPSK       | 1       | 0         | 18.82                      | 18.87                      | 18.83                       | 18.74                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 1       | 46        | 18.89                      | 18.90                      | 18.70                       | 18.74                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 1       | 99        | 18.83                      | 18.73                      | 18.73                       | 18.74                | 19.4                | 0        |  |  |  |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 18.42                      | 18.31                      | 18.34                       | 18.34                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 50      | 24        | 18.52                      | 18.40                      | 18.53                       | 18.30                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 50      | 50        | 18.46                      | 18.40                      | 18.40                       | 18.47                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 100     | 0         | 18.42                      | 18.32                      | 18.32                       | 18.43                | 19.4                | 0        |  |  |  |  |  |  |
| 20                      | 16QAM      | 1       | 0         | 18.44                      | 18.30                      | 18.30                       | 18.40                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 1       | 46        | 18.51                      | 18.37                      | 18.40                       | 18.48                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 18.50                      | 18.30                      | 18.30                       | 18.37                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 50      | 0         | 17.42                      | 17.38                      | 17.34                       | 17.32                | 19                  | 0.4      |  |  |  |  |  |  |
| 20                      | 16QAM      | 50      | 24        | 17.51                      | 17.43                      | 17.46                       | 17.46                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 50      | 50        | 17.45                      | 17.47                      | 17.38                       | 17.39                |                     |          |  |  |  |  |  |  |
| 20                      | 16QAM      | 100     | 0         | 17.53                      | 17.52                      | 17.40                       | 17.53                |                     |          |  |  |  |  |  |  |
| 20                      | 256QAM     | 1       | 0         | 18.81                      | 18.71                      | 18.70                       | 18.78                | 19.4                | 0        |  |  |  |  |  |  |
| 20                      | 256QAM     | 1       | 46        | 18.85                      | 18.77                      | 18.80                       | 18.70                |                     |          |  |  |  |  |  |  |
| 20                      | 256QAM     | 1       | 99        | 18.87                      | 18.80                      | 18.72                       | 18.74                |                     |          |  |  |  |  |  |  |
| 20                      | 256QAM     | 50      | 0         | 18.83                      | 18.70                      | 18.83                       | 18.71                |                     |          |  |  |  |  |  |  |
| 20                      | 256QAM     | 50      | 24        | 18.84                      | 18.72                      | 18.80                       | 18.80                | 19.4                | 0        |  |  |  |  |  |  |
| 20                      | 256QAM     | 50      | 46        | 18.90                      | 18.86                      | 18.74                       | 18.77                |                     |          |  |  |  |  |  |  |
| 20                      | 256QAM     | 100     | 0         | 18.86                      | 18.83                      | 18.72                       | 18.77                |                     |          |  |  |  |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 55515 55500 56160 56665 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 15                      | QPSK       | 1       | 0         | 18.73                      | 18.70                      | 18.67                       | 18.61                | 19.4                | 0        |  |  |  |  |  |  |
| 15                      | QPSK       | 1       | 37        | 18.88                      | 18.80                      | 18.82                       | 18.87                |                     |          |  |  |  |  |  |  |
| 15                      | QPSK       | 1       | 74        | 18.84                      | 18.84                      | 18.77                       | 18.81                |                     |          |  |  |  |  |  |  |
| 15                      | QPSK       | 36      | 0         | 18.82                      | 18.83                      | 18.72                       | 18.80                |                     |          |  |  |  |  |  |  |
| 15                      | QPSK       | 36      | 20        | 18.87                      | 18.82                      | 18.89                       | 18.81                | 19.4                | 0        |  |  |  |  |  |  |
| 15                      | QPSK       | 36      | 36        | 18.87                      | 18.83                      | 18.83                       | 18.73                |                     |          |  |  |  |  |  |  |
| 15                      | QPSK       | 74      | 0         | 18.88                      | 18.87                      | 18.80                       | 18.80                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 1       | 0         | 18.78                      | 18.84                      | 18.80                       | 18.88                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 1       | 37        | 18.77                      | 18.81                      | 18.80                       | 18.83                | 19.4                | 0        |  |  |  |  |  |  |
| 15                      | 16QAM      | 1       | 74        | 18.79                      | 18.86                      | 18.87                       | 18.82                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 36      | 0         | 18.40                      | 18.29                      | 18.30                       | 18.30                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 36      | 20        | 18.51                      | 18.50                      | 18.52                       | 18.43                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 36      | 36        | 18.48                      | 18.40                      | 18.38                       | 18.44                | 19.4                | 0        |  |  |  |  |  |  |
| 15                      | 16QAM      | 74      | 0         | 18.50                      | 18.38                      | 18.35                       | 18.45                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 1       | 0         | 18.48                      | 18.33                      | 18.19                       | 18.38                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 1       | 37        | 18.41                      | 18.37                      | 18.43                       | 18.45                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 1       | 74        | 18.48                      | 18.29                      | 18.30                       | 18.38                | 19.4                | 0        |  |  |  |  |  |  |
| 15                      | 16QAM      | 36      | 0         | 17.43                      | 17.37                      | 17.26                       | 17.31                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 36      | 20        | 17.46                      | 17.30                      | 17.40                       | 17.45                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 36      | 36        | 17.58                      | 17.44                      | 17.50                       | 17.47                |                     |          |  |  |  |  |  |  |
| 15                      | 16QAM      | 74      | 0         | 17.41                      | 17.40                      | 17.37                       | 17.42                | 19                  | 0.4      |  |  |  |  |  |  |
| 15                      | 256QAM     | 1       | 0         | 18.81                      | 18.71                      | 18.64                       | 18.77                |                     |          |  |  |  |  |  |  |
| 15                      | 256QAM     | 1       | 37        | 18.80                      | 18.77                      | 18.74                       | 18.88                |                     |          |  |  |  |  |  |  |
| 15                      | 256QAM     | 1       | 74        | 18.84                      | 18.87                      | 18.87                       | 18.86                |                     |          |  |  |  |  |  |  |
| 15                      | 256QAM     | 1       | 99        | 18.87                      | 18.79                      | 18.83                       | 18.71                | 19.4                | 0        |  |  |  |  |  |  |
| 15                      | 256QAM     | 50      | 0         | 18.83                      | 18.78                      | 18.85                       | 18.71                |                     |          |  |  |  |  |  |  |
| 15                      | 256QAM     | 50      | 24        | 18.84                      | 18.73                      | 18.74                       | 18.74                |                     |          |  |  |  |  |  |  |
| 15                      | 256QAM     | 50      | 46        | 18.90                      | 18.86                      | 18.74                       | 18.70                |                     |          |  |  |  |  |  |  |
| 15                      | 256QAM     | 75      | 0         | 18.86                      | 18.83                      | 18.82                       | 18.88                | 19.4                | 0        |  |  |  |  |  |  |
| 15                      | 256QAM     | 75      | 0         | 18.86                      | 18.83                      | 18.82                       | 18.88                |                     |          |  |  |  |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 55520 55515 56165 56660 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 10                      | QPSK       | 1       | 0         | 18.69                      | 18.68                      | 18.68                       | 18.70                | 19.4                | 0        |  |  |  |  |  |  |
| 10                      | QPSK       | 1       | 25        | 18.90                      | 18.78                      | 18.88                       | 18.84                |                     |          |  |  |  |  |  |  |
| 10                      | QPSK       | 1       | 40        | 18.77                      | 18.71                      | 18.78                       | 18.87                |                     |          |  |  |  |  |  |  |
| 10                      | QPSK       | 25      | 0         | 18.74                      | 18.70                      | 18.72                       | 18.77                |                     |          |  |  |  |  |  |  |
| 10                      | QPSK       | 25      | 12        | 18.78                      | 18.70                      | 18.81                       | 18.79                | 19.4                | 0        |  |  |  |  |  |  |
| 10                      | QPSK       | 25      | 25        | 18.79                      | 18.69                      | 18.83                       | 18.72                |                     |          |  |  |  |  |  |  |
| 10                      | QPSK       | 50      | 0         | 18.82                      | 18.80                      | 18.80                       | 18.89                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 1       | 0         | 18.72                      | 18.65                      | 18.84                       | 18.87                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 1       | 25        | 18.81                      | 18.70                      | 18.88                       | 18.72                | 19.4                | 0        |  |  |  |  |  |  |
| 10                      | 16QAM      | 1       | 40        | 18.81                      | 18.71                      | 18.74                       | 18.73                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 25      | 0         | 18.37                      | 18.30                      | 18.38                       | 18.36                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 25      | 12        | 18.41                      | 18.38                      | 18.40                       | 18.36                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 25      | 25        | 18.50                      | 18.30                      | 18.34                       | 18.36                | 19.4                | 0        |  |  |  |  |  |  |
| 10                      | 16QAM      | 50      | 0         | 18.44                      | 18.29                      | 18.24                       | 18.29                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 1       | 25        | 18.45                      | 18.28                      | 18.38                       | 18.36                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 1       | 40        | 18.41                      | 18.26                      | 18.30                       | 18.35                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 25      | 0         | 17.34                      | 17.21                      | 17.28                       | 17.24                | 19                  | 0.4      |  |  |  |  |  |  |
| 10                      | 16QAM      | 25      | 12        | 17.44                      | 17.34                      | 17.43                       | 17.38                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 25      | 25        | 17.45                      | 17.30                      | 17.46                       | 17.36                |                     |          |  |  |  |  |  |  |
| 10                      | 16QAM      | 50      | 0         | 17.53                      | 17.40                      | 17.43                       | 17.36                |                     |          |  |  |  |  |  |  |
| 10                      | 256QAM     | 1       | 0         | 18.81                      | 18.71                      | 18.84                       | 18.84                | 19.4                | 0        |  |  |  |  |  |  |
| 10                      | 256QAM     | 1       | 25        | 18.85                      | 18.71                      | 18.73                       | 18.80                |                     |          |  |  |  |  |  |  |
| 10                      | 256QAM     | 1       | 40        | 18.87                      | 18.86                      | 18.70                       | 18.82                |                     |          |  |  |  |  |  |  |
| 10                      | 256QAM     | 25      | 0         | 18.83                      | 18.70                      | 18.75                       | 18.71                |                     |          |  |  |  |  |  |  |
| 10                      | 256QAM     | 25      | 12        | 18.84                      | 18.70                      | 18.69                       | 18.79                | 19.4                | 0        |  |  |  |  |  |  |
| 10                      | 256QAM     | 25      | 25        | 18.90                      | 18.80                      | 18.82                       | 18.71                |                     |          |  |  |  |  |  |  |
| 10                      | 256QAM     | 50      | 0         | 18.86                      | 18.83                      | 18.80                       | 18.72                |                     |          |  |  |  |  |  |  |
| Channel                 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 55525 55515 56170 56175 |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| Frequency (MHz)         |            |         |           |                            |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 5                       | QPSK       | 1       | 0         | 18.84                      | 18.80                      | 18.85                       | 18.73                | 19.4                | 0        |  |  |  |  |  |  |
| 5                       | QPSK       | 1       | 20        | 18.80                      | 18.70                      | 18.83                       | 18.87                |                     |          |  |  |  |  |  |  |
| 5                       | QPSK       | 1       | 24        | 18.88                      | 18.81                      | 18.79                       | 18.91                |                     |          |  |  |  |  |  |  |
| 5                       | QPSK       | 12      | 0         | 18.70                      | 18.68                      | 18.68                       | 18.75                |                     |          |  |  |  |  |  |  |
| 5                       | QPSK       | 12      | 7         | 18.83                      | 18.70                      | 18.80                       | 18.86                | 19.4                | 0        |  |  |  |  |  |  |
| 5                       | QPSK       | 12      | 13        | 18.70                      | 18.64                      | 18.70                       | 18.68                |                     |          |  |  |  |  |  |  |
| 5                       | QPSK       | 25      | 0         | 18.86                      | 18.81                      | 18.79                       | 18.84                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 1       | 0         | 18.89                      | 18.86                      | 18.70                       | 18.88                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 1       | 24        | 18.79                      | 18.81                      | 18.80                       | 18.89                | 19.4                | 0        |  |  |  |  |  |  |
| 5                       | 16QAM      | 1       | 24        | 1                          |                            |                             |                      |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 12      | 0         | 18.36                      | 18.21                      | 18.23                       | 18.22                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 12      | 7         | 18.52                      | 18.36                      | 18.43                       | 18.28                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 12      | 13        | 18.42                      | 18.30                      | 18.41                       | 18.41                | 19                  | 0        |  |  |  |  |  |  |
| 5                       | 16QAM      | 12      | 17        | 18.53                      | 18.37                      | 18.48                       | 18.37                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 1       | 0         | 18.38                      | 18.20                      | 18.24                       | 18.41                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 1       | 12        | 18.50                      | 18.25                      | 18.29                       | 18.47                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 12      | 0         | 18.36                      | 18.20                      | 18.42                       | 18.38                | 19.4                | 0        |  |  |  |  |  |  |
| 5                       | 16QAM      | 12      | 7         | 17.59                      | 17.37                      | 17.34                       | 17.24                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 12      | 7         | 17.42                      | 17.30                      | 17.45                       | 17.47                |                     |          |  |  |  |  |  |  |
| 5                       | 16QAM      | 12      | 13        | 17.52                      | 17.39                      | 17.63                       | 17.60                |                     |          |  |  |  |  |  |  |
| 5                       | 256QAM     | 1       | 0         | 18.82                      | 18.70                      | 18.82                       | 18.80                | 19.4                | 0        |  |  |  |  |  |  |
| 5                       | 256QAM     | 1       | 0         | 18.81                      | 18.71                      | 18.80                       | 18.80                |                     |          |  |  |  |  |  |  |
| 5                       | 256QAM     | 1       | 12        | 18.85                      | 18.77                      | 18.79                       | 18.86                |                     |          |  |  |  |  |  |  |
| 5                       | 256QAM     | 1       | 12        | 18.86                      | 18.78                      | 18.81                       | 18.83                |                     |          |  |  |  |  |  |  |
| 5                       | 256QAM     | 12      | 0         | 18.83                      | 18.70                      | 18.77                       | 18.78                | 19.4                | 0        |  |  |  |  |  |  |
| 5                       | 256QAM     | 12      | 7         | 18.84                      | 18.73                      | 18.75                       | 18.79                |                     |          |  |  |  |  |  |  |
| 5                       | 256QAM     | 12      | 13        | 18.86                      | 18.83                      | 18.71                       | 18.85                |                     |          |  |  |  |  |  |  |
| 5                       | 256QAM     | 12      | 13        | 18.86                      | 18.83                      | 18.71                       | 18.85                |                     |          |  |  |  |  |  |  |



Reduced Power Mode for DSI4

| GSM850_Ant 0    |       |       |       |                     | FranscheAverage Power (dBm) |       |       |                     |  |
|-----------------|-------|-------|-------|---------------------|-----------------------------|-------|-------|---------------------|--|
| TX Channel      | 158   | 186   | 201   | Turn-up Limit (dBm) | 158                         | 186   | 201   | Turn-up Limit (dBm) |  |
| Frequency (MHz) | 824.2 | 836.4 | 848.8 |                     | 824.2                       | 836.4 | 848.8 |                     |  |
| GSM1 Tx ant     | 32.25 | 32.11 | 32.23 | 33.50               | 23.25                       | 23.11 | 23.23 | 24.50               |  |
| GPMS 1 Tx ant   | 32.17 | 32.09 | 32.21 | 33.50               | 23.17                       | 23.09 | 23.21 | 24.50               |  |
| GPMS 2 Tx ant   | 32.41 | 32.28 | 32.33 | 32.50               | 24.41                       | 24.28 | 24.33 | 24.50               |  |
| GPMS 3 Tx ant   | 32.41 | 32.38 | 32.53 | 29.50               | 24.41                       | 24.33 | 24.57 | 24.74               |  |
| GPMS 4 Tx ant   | 28.89 | 28.59 | 27.90 | 27.50               | 23.89                       | 23.59 | 24.30 | 24.50               |  |
| EDGE 1 Tx ant   | 28.85 | 28.38 | 28.49 | 27.00               | 17.85                       | 17.38 | 17.49 | 18.00               |  |
| EDGE 2 Tx ant   | 28.43 | 28.21 | 28.31 | 28.50               | 18.43                       | 18.21 | 18.31 | 20.00               |  |
| EDGE 3 Tx ant   | 23.51 | 23.47 | 23.52 | 24.50               | 18.51                       | 18.47 | 18.52 | 20.50               |  |
| EDGE 4 Tx ant   | 23.54 | 21.89 | 21.97 | 23.00               | 18.54                       | 18.89 | 18.97 | 20.00               |  |

| GSM1900_Ant 1   |        |       |        |                     | FranscheAverage Power (dBm) |       |        |                     |  |
|-----------------|--------|-------|--------|---------------------|-----------------------------|-------|--------|---------------------|--|
| TX Channel      | 1582.2 | 1582  | 1582.8 | Turn-up Limit (dBm) | 1582.2                      | 1582  | 1582.8 | Turn-up Limit (dBm) |  |
| Frequency (MHz) | 1582.2 | 1582  | 1582.8 |                     | 1582.2                      | 1582  | 1582.8 |                     |  |
| GSM1 Tx ant     | 28.50  | 28.98 | 28.55  | 30.50               | 18.50                       | 18.98 | 18.55  | 21.50               |  |
| GPMS 1 Tx ant   | 28.50  | 28.84 | 28.51  | 30.50               | 18.50                       | 18.84 | 18.51  | 21.50               |  |
| GPMS 2 Tx ant   | 28.52  | 28.72 | 28.53  | 27.50               | 20.52                       | 20.72 | 20.53  | 21.50               |  |
| GPMS 3 Tx ant   | 24.05  | 24.74 | 24.70  | 28.50               | 20.38                       | 20.46 | 20.44  | 22.54               |  |
| GPMS 4 Tx ant   | 22.85  | 22.86 | 22.84  | 24.50               | 18.85                       | 18.86 | 18.84  | 21.50               |  |
| EDGE 1 Tx ant   | 24.80  | 25.23 | 24.70  | 20.00               | 19.80                       | 19.23 | 19.70  | 17.00               |  |
| EDGE 2 Tx ant   | 23.51  | 23.66 | 23.41  | 25.00               | 17.51                       | 17.66 | 17.41  | 19.00               |  |
| EDGE 3 Tx ant   | 21.50  | 21.83 | 21.50  | 22.50               | 17.50                       | 17.87 | 17.50  | 18.50               |  |
| EDGE 4 Tx ant   | 20.20  | 20.27 | 20.74  | 22.00               | 17.20                       | 17.27 | 17.74  | 18.00               |  |

|                 | Band               |       |                     |        | GSM850_V_Ant 1 |       |                     |        | GSM850_V_Ant 2 |  |  |  |
|-----------------|--------------------|-------|---------------------|--------|----------------|-------|---------------------|--------|----------------|--|--|--|
|                 | TX Channel         |       | Turn-up Limit (dBm) |        | TX Channel     |       | Turn-up Limit (dBm) |        |                |  |  |  |
|                 | 5052               | 5050  | 5058                | 5056   | 5052           | 5050  | 5058                | 5056   |                |  |  |  |
| Frequency (MHz) | 1852.4             | 1850  | 1857.6              | 1855.6 | 1852.4         | 1850  | 1857.6              | 1855.6 |                |  |  |  |
| SCPP Ref 05     | ARM 12 200ms       | 23.50 | 23.34               | 23.81  | 25.50          | 24.10 | 24.50               | 24.10  | 25.50          |  |  |  |
| SCPP Ref 06     | HSDPA Subband 1    | 22.53 | 22.82               | 22.55  | 24.45          | 23.23 | 23.35               | 23.23  | 24.45          |  |  |  |
| SCPP Ref 07     | HSDPA Subband 2    | 22.50 | 22.82               | 22.82  | 24.50          | 23.27 | 23.53               | 23.20  | 24.50          |  |  |  |
| SCPP Ref 08     | HSDPA Subband 3    | 22.89 | 22.48               | 22.95  | 23.50          | 22.27 | 22.58               | 22.70  | 23.50          |  |  |  |
| SCPP Ref 09     | HSDPA Subband 4    | 22.88 | 22.41               | 22.13  | 23.50          | 22.74 | 22.88               | 22.67  | 23.50          |  |  |  |
| SCPP Ref 05     | DC-HSDPA Subband 1 | 22.88 | 22.68               | 22.88  | 24.00          | 23.38 | 23.38               | 23.10  | 24.00          |  |  |  |
| SCPP Ref 06     | DC-HSDPA Subband 2 | 22.14 | 22.19               | 22.15  | 23.50          | 22.50 | 22.87               | 22.61  | 23.50          |  |  |  |
| SCPP Ref 07     | DC-HSDPA Subband 3 | 22.13 | 22.20               | 22.00  | 23.50          | 22.27 | 22.81               | 22.64  | 23.50          |  |  |  |
| SCPP Ref 08     | HSPA Subband 1     | 22.97 | 22.84               | 22.86  | 24.00          | 23.59 | 23.59               | 23.50  | 24.00          |  |  |  |
| SCPP Ref 09     | HSPA Subband 2     | 20.07 | 20.98               | 20.09  | 22.00          | 21.21 | 21.58               | 21.21  | 22.00          |  |  |  |
| SCPP Ref 05     | HSPA Subband 3     | 21.53 | 21.87               | 21.69  | 22.00          | 20.57 | 21.24               | 20.57  | 22.00          |  |  |  |
| SCPP Ref 06     | HSPA Subband 4     | 20.07 | 20.53               | 20.08  | 22.00          | 21.80 | 21.80               | 21.21  | 22.00          |  |  |  |
| SCPP Ref 07     | HSPA Subband 5     | 22.80 | 23.00               | 22.70  | 24.00          | 23.30 | 23.80               | 23.30  | 24.00          |  |  |  |

| Band            |                    | GSM850_V_Ant 0 |       |                     |       |       | GSM850_V_Ant 1 |                     |       |  |  |
|-----------------|--------------------|----------------|-------|---------------------|-------|-------|----------------|---------------------|-------|--|--|
| TX Channel      | 4102               | 4102           | 4102  | Turn-up Limit (dBm) | 4102  | 4102  | 4102           | Turn-up Limit (dBm) |       |  |  |
| Frequency (MHz) | 4102               | 4102           | 4102  |                     | 4102  | 4102  | 4102           |                     |       |  |  |
| SCPP Ref 01     | ARM 12 200ms       | 24.40          | 24.81 | 24.40               | 26.00 | 26.30 | 24.40          | 24.47               | 26.00 |  |  |
| SCPP Ref 02     | ARM 12 200ms       | 24.41          | 24.53 | 24.62               | 25.00 | 24.52 | 24.44          | 24.50               | 25.00 |  |  |
| SCPP Ref 03     | HSDPA Subband 1    | 23.48          | 23.55 | 23.68               | 24.00 | 23.38 | 23.41          | 23.60               | 24.00 |  |  |
| SCPP Ref 04     | HSDPA Subband 2    | 23.48          | 23.48 | 23.60               | 24.00 | 23.20 | 23.47          | 23.60               | 24.00 |  |  |
| SCPP Ref 05     | HSDPA Subband 3    | 23.01          | 23.08 | 23.15               | 23.50 | 22.03 | 22.89          | 23.00               | 23.50 |  |  |
| SCPP Ref 06     | HSDPA Subband 4    | 22.86          | 23.06 | 23.16               | 23.50 | 22.88 | 23.08          | 23.10               | 23.50 |  |  |
| SCPP Ref 07     | DC-HSDPA Subband 1 | 22.92          | 22.71 | 22.64               | 24.00 | 22.91 | 22.86          | 22.76               | 24.00 |  |  |
| SCPP Ref 08     | DC-HSDPA Subband 2 | 22.10          | 22.20 | 22.40               | 24.00 | 22.70 | 22.80          | 22.71               | 24.00 |  |  |
| SCPP Ref 09     | DC-HSDPA Subband 3 | 22.72          | 22.82 | 22.89               | 23.50 | 22.30 | 22.41          | 22.33               | 23.50 |  |  |
| SCPP Ref 05     | DC-HSDPA Subband 4 | 22.71          | 22.80 | 22.86               | 23.50 | 22.74 | 22.45          | 22.40               | 23.50 |  |  |
| SCPP Ref 06     | HSPA Subband 1     | 23.83          | 23.55 | 23.70               | 24.00 | 23.38 | 23.43          | 23.80               | 24.00 |  |  |
| SCPP Ref 07     | HSPA Subband 2     | 21.54          | 21.54 | 21.73               | 24.00 | 21.50 | 21.44          | 21.81               | 24.00 |  |  |
| SCPP Ref 08     | HSPA Subband 3     | 22.41          | 22.63 | 22.48               | 23.00 | 22.30 | 22.45          | 22.50               | 23.00 |  |  |
| SCPP Ref 09     | HSPA Subband 4     | 21.40          | 21.57 | 21.74               | 22.00 | 21.30 | 21.42          | 21.61               | 22.00 |  |  |
| SCPP Ref 05     | HSPA Subband 5     | 23.50          | 23.50 | 23.70               | 24.00 | 23.30 | 23.40          | 23.80               | 24.00 |  |  |

| GSM850_Ant 1    |       |       |       |                     | FranscheAverage Power (dBm) |       |       |                     |  |
|-----------------|-------|-------|-------|---------------------|-----------------------------|-------|-------|---------------------|--|
| TX Channel      | 158   | 186   | 201   | Turn-up Limit (dBm) | 158                         | 186   | 201   | Turn-up Limit (dBm) |  |
| Frequency (MHz) | 824.2 | 836.4 | 848.8 |                     | 824.2                       | 836.4 | 848.8 |                     |  |
| GSM1 Tx ant     | 32.25 | 32.42 | 33.05 | 33.50               | 23.25                       | 23.42 | 24.05 | 24.50               |  |
| GPMS 1 Tx ant   | 32.37 | 32.40 | 33.05 | 33.50               | 23.30                       | 23.40 | 24.05 | 24.50               |  |
| GPMS 2 Tx ant   | 32.28 | 32.32 | 32.24 | 32.50               | 24.28                       | 24.32 | 24.24 | 24.50               |  |
| GPMS 3 Tx ant   | 28.87 | 28.89 | 28.85 | 29.00               | 23.87                       | 23.90 | 23.83 | 24.24               |  |
| GPMS 4 Tx ant   | 28.89 | 28.90 | 27.20 | 27.00               | 23.89                       | 23.90 | 24.25 | 24.50               |  |
| EDGE 1 Tx ant   | 28.77 | 28.58 | 28.81 | 27.00               | 17.77                       | 17.58 | 17.81 | 18.00               |  |
| EDGE 2 Tx ant   | 28.80 | 28.53 | 28.56 | 28.00               | 18.80                       | 18.53 | 18.56 | 20.00               |  |
| EDGE 3 Tx ant   | 23.50 | 23.83 | 24.03 | 24.50               | 18.50                       | 19.37 | 19.74 | 20.50               |  |
| EDGE 4 Tx ant   | 22.01 | 22.18 | 22.27 | 23.00               | 18.00                       | 18.18 | 18.27 | 20.00               |  |

| GSM1900_Ant 2   |        |       |        |                     | FranscheAverage Power (dBm) |       |        |                     |  |
|-----------------|--------|-------|--------|---------------------|-----------------------------|-------|--------|---------------------|--|
| TX Channel      | 1582   | 1581  | 1583   | Turn-up Limit (dBm) | 1582                        | 1581  | 1583   | Turn-up Limit (dBm) |  |
| Frequency (MHz) | 1582.2 | 1582  | 1582.8 |                     | 1582.2                      | 1582  | 1582.8 |                     |  |
| GSM1 Tx ant     | 32.24  | 32.27 | 20.53  | 32.50               | 21.24                       | 21.27 | 20.53  | 21.50               |  |
| GPMS 1 Tx ant   | 32.22  | 32.25 | 20.51  | 32.50               | 21.22                       | 21.25 | 20.51  | 21.50               |  |
| GPMS 2 Tx ant   | 28.59  | 28.11 | 27.71  | 28.25               | 22.59                       | 22.11 | 21.71  | 22.25               |  |
| GPMS 3 Tx ant   | 28.53  | 28.10 | 25.94  | 38.50               | 21.77                       | 21.84 | 21.68  | 22.24               |  |
| GPMS 4 Tx ant   | 24.14  | 24.23 | 22.67  | 24.50               | 21.14                       | 21.53 | 20.67  | 22.00               |  |
| EDGE 1 Tx ant   | 28.59  | 28.20 | 28.57  | 28.50               | 17.59                       | 17.20 | 18.57  | 17.50               |  |
| EDGE 2 Tx ant   | 25.08  | 25.14 | 24.71  | 25.50               | 18.08                       | 18.14 | 18.71  | 19.50               |  |
| EDGE 3 Tx ant   | 22.48  | 23.50 | 22.88  | 24.00               | 18.20                       | 19.32 | 18.73  | 19.50               |  |
| EDGE 4 Tx ant   | 21.68  | 21.02 | 21.30  | 22.00               | 18.68                       | 18.02 | 18.30  | 19.00               |  |

| Band        | GSM850_V_Ant 1     |        |        |        |                     | GSM850_V_Ant 2 |        |        |                     |  |
|-------------|--------------------|--------|--------|--------|---------------------|----------------|--------|--------|---------------------|--|
|             | TX Channel         | 1312   | 1413   | 1515   | Turn-up Limit (dBm) | 1312           | 1413   | 1515   | Turn-up Limit (dBm) |  |
|             | Frequency (MHz)    | 1712.4 | 1712.8 | 1712.8 |                     | 1712.4         | 1712.8 | 1712.8 |                     |  |
| SCPP Ref 05 | ARM 12 200ms       | 23.47  | 23.70  | 23.67  | 25.00               | 24.23          | 24.41  | 24.20  | 25.00               |  |
| SCPP Ref 06 | ARM 12 200ms       | 23.50  | 23.72  | 23.70  | 25.00               | 24.26          | 24.43  | 24.42  | 25.00               |  |
| SCPP Ref 07 | HSDPA Subband 1    | 22.58  | 22.76  | 22.71  | 24.00               | 23.24          | 23.43  | 23.40  | 24.00               |  |
| SCPP Ref 08 | HSDPA Subband 2    | 22.49  | 22.79  | 22.75  | 24.00               | 23.22          | 23.41  | 23.44  | 24.00               |  |
| SCPP Ref 09 | HSDPA Subband 3    | 21.87  | 22.25  | 22.17  | 23.50               | 22.73          | 22.89  | 22.91  | 23.50               |  |
| SCPP Ref 05 | HSDPA Subband 4    | 21.89  | 22.25  | 22.29  | 23.50               | 22.68          | 22.83  | 22.88  | 23.50               |  |
| SCPP Ref 06 | DC-HSDPA Subband 1 | 22.57  | 22.48  | 22.43  | 24.00               | 23.11          | 23.36  | 23.06  | 24.00               |  |
| SCPP Ref 07 | DC-HSDPA Subband 2 | 22.07  | 22.10  | 22.09  | 23.50               | 22.52          | 22.71  | 22.59  | 23.50               |  |
| SCPP Ref 08 | DC-HSDPA Subband 3 | 21.99  | 22.02  | 21.90  | 23.50               | 22.49          | 22.74  | 22.69  | 23.50               |  |
| SCPP Ref 05 | HSDPA Subband 1    | 22.83  | 22.82  | 22.70  | 24.00               | 23.86          | 23.44  | 23.41  | 24.00               |  |
| SCPP Ref 06 | HSDPA Subband 2    | 20.61  | 20.70  | 20.69  | 22.00               | 21.22          | 21.40  | 21.40  | 22.00               |  |
| SCPP Ref 07 | HSDPA Subband 3    | 21.58  | 21.73  | 21.72  | 23.00               | 22.22          | 22.43  | 22.39  | 23.00               |  |
| SCPP Ref 08 | HSDPA Subband 4    | 20.54  | 20.70  | 20.70  | 22.00               | 21.21          | 21.44  | 21.44  | 22.00               |  |
| SCPP Ref 09 | HSDPA Subband 5    | 22.50  | 22.80  | 22.70  | 24.00               | 23.20          | 23.40  | 23.40  | 24.00               |  |



| Band 2_Ant 1    |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
|-----------------|------------|--------|-----------|---------------------|----------------------|----------------------|--------------------|----------|--|--|--|--|--|--|--|--|
| RF [MHz]        | Modulation | RF Sub | RF Offset | Power Low Freq. [W] | Power High Freq. [W] | Power High Freq. [W] | Turn-on time (sec) | MFR (dB) |  |  |  |  |  |  |  |  |
| Channel         |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1      | 0         | 21.61               | 21.76                | 21.76                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1      | 46        | 21.68               | 22.03                | 21.98                |                    |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50     | 0         | 21.61               | 21.64                | 21.64                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50     | 46        | 21.67               | 21.69                | 21.69                |                    |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 100    | 0         | 21.57               | 21.67                | 21.62                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 100    | 46        | 21.64               | 21.70                | 21.66                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1      | 46        | 21.75               | 21.67                | 21.64                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1      | 99        | 21.70               | 21.78                | 21.65                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50     | 0         | 21.64               | 21.62                | 21.67                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50     | 24        | 21.63               | 21.68                | 21.65                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50     | 50        | 21.46               | 21.67                | 21.65                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 100    | 0         | 21.80               | 21.71                | 21.52                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 8QAM       | 1      | 0         | 21.42               | 21.65                | 21.53                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 20              | 8QAM       | 1      | 46        | 21.67               | 21.65                | 21.61                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 8QAM       | 50     | 0         | 21.50               | 21.51                | 21.50                | 22                 | 1        |  |  |  |  |  |  |  |  |
| 20              | 8QAM       | 50     | 24        | 21.50               | 21.64                | 21.28                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 8QAM       | 100    | 0         | 21.27               | 21.58                | 21.24                | 22                 | 1        |  |  |  |  |  |  |  |  |
| 20              | 25QAM      | 1      | 0         | 17.82               | 17.87                | 17.72                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 25QAM      | 1      | 46        | 17.73               | 17.80                | 17.81                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 20              | 25QAM      | 1      | 99        | 17.73               | 17.80                | 17.81                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 25QAM      | 50     | 0         | 17.68               | 17.78                | 17.75                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 20              | 25QAM      | 50     | 24        | 17.76               | 17.77                | 17.74                |                    |          |  |  |  |  |  |  |  |  |
| 20              | 25QAM      | 100    | 0         | 17.71               | 17.74                | 17.68                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 20              | 25QAM      | 100    | 0         | 17.69               | 17.74                | 17.63                |                    |          |  |  |  |  |  |  |  |  |
| Channel         |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1      | 0         | 21.53               | 21.60                | 21.53                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1      | 37        | 21.70               | 21.66                | 21.65                |                    |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1      | 74        | 21.51               | 21.62                | 21.68                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1      | 99        | 21.62               | 21.66                | 21.63                |                    |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36     | 20        | 21.46               | 21.70                | 21.64                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36     | 36        | 21.41               | 22.01                | 21.67                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1      | 0         | 21.58               | 21.57                | 21.58                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1      | 37        | 21.61               | 21.51                | 21.52                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1      | 74        | 21.46               | 21.64                | 21.52                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1      | 99        | 21.42               | 21.58                | 21.49                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36     | 20        | 21.36               | 21.70                | 21.45                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36     | 36        | 21.41               | 21.66                | 21.47                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 8QAM       | 1      | 0         | 21.46               | 21.70                | 21.58                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 15              | 8QAM       | 1      | 0         | 21.15               | 21.45                | 21.55                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 8QAM       | 1      | 37        | 21.54               | 21.44                | 21.79                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 15              | 8QAM       | 1      | 74        | 21.58               | 21.57                | 21.57                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 8QAM       | 36     | 0         | 21.01               | 21.07                | 21.00                | 22                 | 1        |  |  |  |  |  |  |  |  |
| 15              | 8QAM       | 36     | 20        | 20.93               | 21.20                | 21.18                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 8QAM       | 36     | 36        | 20.26               | 21.21                | 21.15                | 22                 | 1        |  |  |  |  |  |  |  |  |
| 15              | 8QAM       | 36     | 50        | 21.20               | 21.62                | 21.34                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 25QAM      | 1      | 0         | 17.76               | 17.86                | 17.86                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 15              | 25QAM      | 1      | 37        | 17.59               | 17.81                | 17.81                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 25QAM      | 1      | 74        | 17.66               | 17.87                | 17.87                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 15              | 25QAM      | 1      | 99        | 17.66               | 17.87                | 17.87                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 25QAM      | 36     | 0         | 17.68               | 17.86                | 17.85                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 15              | 25QAM      | 36     | 20        | 17.75               | 17.77                | 17.71                |                    |          |  |  |  |  |  |  |  |  |
| 15              | 25QAM      | 75     | 0         | 17.59               | 17.62                | 17.64                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 15              | 25QAM      | 75     | 0         | 17.59               | 17.62                | 17.64                |                    |          |  |  |  |  |  |  |  |  |
| Channel         |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1      | 0         | 21.58               | 21.60                | 21.53                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1      | 37        | 21.70               | 21.66                | 21.65                |                    |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1      | 46        | 21.53               | 21.52                | 21.53                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25     | 0         | 21.58               | 21.67                | 21.70                |                    |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25     | 46        | 21.50               | 21.60                | 21.58                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25     | 99        | 21.64               | 21.69                | 21.74                |                    |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25     | 25        | 21.46               | 21.40                | 21.45                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 50     | 0         | 21.43               | 21.68                | 21.69                |                    |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 50     | 46        | 21.58               | 21.62                | 21.72                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1      | 25        | 21.58               | 21.62                | 21.69                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1      | 25        | 21.58               | 21.62                | 21.62                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1      | 46        | 21.73               | 21.68                | 21.62                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1      | 46        | 21.73               | 21.68                | 21.62                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25     | 12        | 21.32               | 21.58                | 21.21                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25     | 12        | 21.32               | 21.58                | 21.21                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25     | 25        | 21.46               | 21.40                | 21.45                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 50     | 0         | 21.68               | 21.77                | 21.75                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 50     | 0         | 21.68               | 21.77                | 21.75                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 50     | 46        | 21.62               | 21.66                | 21.68                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1      | 25        | 21.62               | 21.58                | 21.58                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 8QAM       | 1      | 25        | 21.62               | 21.58                | 21.58                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 8QAM       | 1      | 46        | 21.68               | 21.66                | 21.58                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 8QAM       | 1      | 99        | 21.68               | 21.66                | 21.58                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 8QAM       | 25     | 12        | 21.14               | 21.35                | 21.22                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 8QAM       | 25     | 12        | 21.14               | 21.35                | 21.22                | 23                 | 1        |  |  |  |  |  |  |  |  |
| 10              | 8QAM       | 25     | 25        | 21.28               | 21.54                | 21.66                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 8QAM       | 50     | 0         | 21.58               | 21.62                | 21.62                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 10              | 8QAM       | 50     | 46        | 21.62               | 21.66                | 21.66                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 25QAM      | 1      | 0         | 17.75               | 17.74                | 17.65                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 10              | 25QAM      | 1      | 25        | 17.64               | 17.84                | 17.77                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 25QAM      | 1      | 46        | 17.70               | 17.78                | 17.75                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 10              | 25QAM      | 1      | 99        | 17.70               | 17.78                | 17.75                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 25QAM      | 25     | 12        | 17.66               | 17.86                | 17.69                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 10              | 25QAM      | 25     | 12        | 17.66               | 17.86                | 17.69                |                    |          |  |  |  |  |  |  |  |  |
| 10              | 25QAM      | 25     | 25        | 17.62               | 17.67                | 17.64                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 10              | 25QAM      | 25     | 25        | 17.62               | 17.67                | 17.64                |                    |          |  |  |  |  |  |  |  |  |
| Channel         |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1      | 0         | 21.61               | 21.71                | 21.61                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1      | 50        | 21.60               | 21.66                | 21.65                |                    |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1      | 24        | 21.43               | 21.50                | 21.51                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12     | 0         | 21.28               | 21.63                | 21.37                |                    |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12     | 0         | 21.28               | 21.63                | 21.37                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12     | 50        | 21.47               | 21.68                | 21.64                |                    |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12     | 13        | 21.38               | 21.76                | 21.62                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 25     | 0         | 21.53               | 21.79                | 21.67                |                    |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 25     | 0         | 21.53               | 21.79                | 21.67                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 25     | 50        | 21.66               | 21.78                | 21.74                |                    |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1      | 19        | 21.00               | 21.45                | 21.22                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1      | 24        | 21.45               | 21.53                | 21.63                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1      | 24        | 21.45               | 21.53                | 21.63                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1      | 24        | 21.45               | 21.53                | 21.63                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12     | 0         | 21.53               | 21.71                | 21.61                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12     | 0         | 21.53               | 21.71                | 21.61                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12     | 50        | 21.66               | 21.78                | 21.74                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12     | 13        | 21.38               | 21.56                | 21.30                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 25     | 0         | 21.86               | 21.71                | 21.40                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 25     | 0         | 21.86               | 21.71                | 21.40                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 1      | 12        | 21.05               | 21.60                | 21.75                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 1      | 24        | 21.72               | 21.50                | 21.60                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 1      | 24        | 21.72               | 21.50                | 21.60                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 1      | 24        | 21.72               | 21.50                | 21.60                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 12     | 0         | 21.57               | 21.73                | 21.22                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 12     | 0         | 21.57               | 21.73                | 21.22                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 12     | 13        | 21.38               | 21.26                | 21.21                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 25     | 0         | 21.17               | 21.38                | 21.28                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 25     | 0         | 21.17               | 21.38                | 21.28                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 5               | 8QAM       | 25     | 50        | 21.47               | 21.76                | 21.64                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 25QAM      | 1      | 12        | 17.68               | 17.87                | 17.65                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 5               | 25QAM      | 1      | 24        | 17.68               | 17.87                | 17.65                |                    |          |  |  |  |  |  |  |  |  |
| 5               | 25QAM      | 12     | 13        | 17.72               | 17.72                | 17.68                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 5               | 25QAM      | 12     | 13        | 17.72               | 17.72                | 17.68                |                    |          |  |  |  |  |  |  |  |  |
| Channel         |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |        |           |                     |                      |                      |                    |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1      | 0         | 21.46               | 21.86                | 21.57                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1      | 50        | 21.64               | 22.01                | 21.68                |                    |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1      | 8         | 21.50               | 21.84                | 21.67                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8      | 0         | 21.50               | 21.94                | 21.28                |                    |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8      | 0         | 21.43               | 21.79                | 22.01                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8      | 8         | 21.67               | 22.01                | 21.84                |                    |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1      | 10        | 21.45               | 21.74                | 21.52                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1      | 0         | 21.80               | 21.43                | 21.80                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1      | 8         | 21.43               | 21.83                | 21.83                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1      | 14        | 21.77               | 21.63                | 21.63                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8      | 0         | 21.53               | 21.58                | 21.52                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8      | 8         | 21.36               | 21.50                | 21.34                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8      | 8         | 21.36               | 21.50                | 21.34                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 16     | 0         | 21.70               | 21.53                | 21.51                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 8QAM       | 1      | 0         | 21.44               | 21.69                | 21.51                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | 8QAM       | 1      | 8         | 21.67               | 21.54                | 21.54                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 8QAM       | 1      | 14        | 21.65               | 21.72                | 21.49                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | 8QAM       | 8      | 0         | 20.90               | 20.66                | 21.34                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 8QAM       | 8      | 8         | 21.44               | 21.36                | 21.31                | 23                 | 1        |  |  |  |  |  |  |  |  |
| 3               | 8QAM       | 8      | 8         | 21.44               | 21.36                | 21.31                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 8QAM       | 16     | 0         | 21.18               | 21.67                | 21.51                | 23                 | 0        |  |  |  |  |  |  |  |  |
| 3               | 8QAM       | 16     | 0         | 21.18               | 21.67                | 21.51                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 1      | 0         | 17.73               | 17.83                | 17.66                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 1      | 8         | 17.73               | 17.83                | 17.66                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 1      | 14        | 17.73               | 17.83                | 17.66                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 1      | 14        | 17.73               | 17.83                | 17.66                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 1      | 14        | 17.61               | 17.80                | 17.78                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 8      | 0         | 17.59               | 17.71                | 17.67                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 8      | 8         | 17.59               | 17.71                | 17.67                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 8      | 8         | 17.59               | 17.71                | 17.67                |                    |          |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 16     | 0         | 17.56               | 17.73                | 17.58                | 19                 | 4        |  |  |  |  |  |  |  |  |
| 3               | 25QAM      | 16     | 0         | 17.56               | 17.73                | 17.58                |                    |          |  |  |  |  |  |  |  |  |

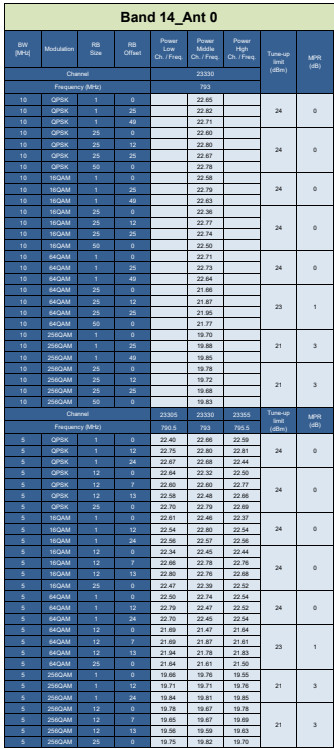


| Band 5_Ant 0    |            |         |           |                       |                        |                        |                        |               |                 |           |
|-----------------|------------|---------|-----------|-----------------------|------------------------|------------------------|------------------------|---------------|-----------------|-----------|
| BW [MHz]        | Modulation | RS Rate | RG Offset | Phase Low Ch. [Freq.] | Phase High Ch. [Freq.] | Phase Mod. Ch. [Freq.] | Phase High Ch. [Freq.] | Turn-up (sec) | Turn-down (sec) | APRS (dB) |
| Channel         |            |         |           |                       |                        |                        |                        |               |                 |           |
| Frequency [MHz] |            |         |           |                       |                        |                        |                        |               |                 |           |
| 10              | QPSK       | 1       | 0         | 22.68                 | 22.70                  | 22.69                  |                        |               |                 |           |
| 10              | QPSK       | 1       | 25        | 22.68                 | 22.68                  | 22.63                  | 24                     | 0             |                 |           |
| 10              | QPSK       | 1       | 50        | 22.74                 | 22.69                  | 22.73                  |                        |               |                 |           |
| 10              | QPSK       | 25      | 0         | 22.81                 | 22.71                  | 22.68                  |                        |               |                 |           |
| 10              | QPSK       | 25      | 12        | 22.84                 | 22.63                  | 22.63                  | 24                     | 0             |                 |           |
| 10              | QPSK       | 25      | 25        | 22.68                 | 22.74                  | 22.64                  |                        |               |                 |           |
| 10              | QPSK       | 50      | 0         | 22.81                 | 22.81                  | 22.67                  | 24                     | 0             |                 |           |
| 10              | 16QAM      | 1       | 0         | 22.62                 | 22.67                  | 22.73                  |                        |               |                 |           |
| 10              | 16QAM      | 1       | 25        | 22.72                 | 22.68                  | 22.66                  | 24                     | 0             |                 |           |
| 10              | 16QAM      | 1       | 50        | 22.68                 | 22.62                  | 22.68                  |                        |               |                 |           |
| 10              | 16QAM      | 25      | 0         | 22.64                 | 22.67                  | 22.63                  |                        |               |                 |           |
| 10              | 16QAM      | 25      | 12        | 22.62                 | 22.61                  | 22.67                  | 24                     | 0             |                 |           |
| 10              | 16QAM      | 25      | 25        | 22.74                 | 22.64                  | 22.73                  |                        |               |                 |           |
| 10              | 16QAM      | 50      | 0         | 22.70                 | 22.70                  | 22.74                  |                        |               |                 |           |
| 10              | 8QAM       | 1       | 0         | 22.65                 | 22.65                  | 22.69                  |                        |               |                 |           |
| 10              | 8QAM       | 1       | 25        | 22.68                 | 22.67                  | 22.64                  | 24                     | 0             |                 |           |
| 10              | 8QAM       | 1       | 50        | 22.70                 | 22.67                  | 22.73                  |                        |               |                 |           |
| 10              | 8QAM       | 25      | 0         | 21.36                 | 21.36                  | 21.41                  |                        |               |                 |           |
| 10              | 8QAM       | 25      | 12        | 21.41                 | 21.43                  | 21.40                  | 23                     | 1             |                 |           |
| 10              | 8QAM       | 50      | 0         | 21.48                 | 21.47                  | 21.56                  |                        |               |                 |           |
| 20              | 25QAM      | 1       | 0         | 19.82                 | 19.81                  | 19.86                  |                        |               |                 |           |
| 20              | 25QAM      | 1       | 25        | 19.87                 | 19.81                  | 19.86                  |                        |               |                 |           |
| 20              | 25QAM      | 1       | 50        | 19.77                 | 19.86                  | 19.79                  |                        |               |                 |           |
| 20              | 25QAM      | 1       | 49        | 19.74                 | 19.75                  | 19.79                  |                        |               |                 |           |
| 20              | 25QAM      | 25      | 0         | 19.78                 | 19.78                  | 19.79                  |                        |               |                 |           |
| 20              | 25QAM      | 25      | 12        | 19.82                 | 19.83                  | 19.71                  | 21                     | 3             |                 |           |
| 20              | 25QAM      | 25      | 49        | 19.77                 | 19.86                  | 19.84                  |                        |               |                 |           |
| 20              | 25QAM      | 50      | 0         | 19.85                 | 19.81                  | 19.76                  |                        |               |                 |           |
| Channel         |            |         |           |                       |                        |                        |                        |               |                 |           |
| Frequency [MHz] |            |         |           |                       |                        |                        |                        |               |                 |           |
| 5               | QPSK       | 1       | 0         | 20.73                 | 20.61                  | 20.52                  |                        |               |                 |           |
| 5               | QPSK       | 1       | 12        | 20.68                 | 20.60                  | 20.69                  | 24                     | 0             |                 |           |
| 5               | QPSK       | 1       | 24        | 20.73                 | 20.61                  | 20.67                  |                        |               |                 |           |
| 5               | QPSK       | 1       | 49        | 20.62                 | 20.71                  | 20.68                  |                        |               |                 |           |
| 5               | QPSK       | 12      | 7         | 20.67                 | 20.60                  | 20.73                  | 24                     | 0             |                 |           |
| 5               | QPSK       | 12      | 13        | 20.48                 | 20.54                  | 20.66                  |                        |               |                 |           |
| 5               | QPSK       | 24      | 0         | 20.58                 | 20.70                  | 20.61                  |                        |               |                 |           |
| 5               | 16QAM      | 1       | 0         | 20.89                 | 20.63                  | 20.55                  |                        |               |                 |           |
| 5               | 16QAM      | 1       | 12        | 20.61                 | 20.64                  | 20.61                  | 24                     | 0             |                 |           |
| 5               | 16QAM      | 1       | 24        | 20.58                 | 20.68                  | 20.60                  |                        |               |                 |           |
| 5               | 16QAM      | 1       | 49        | 20.69                 | 20.61                  | 20.66                  |                        |               |                 |           |
| 5               | 16QAM      | 12      | 7         | 20.60                 | 20.70                  | 20.62                  | 24                     | 0             |                 |           |
| 5               | 16QAM      | 12      | 13        | 20.63                 | 20.73                  | 20.61                  |                        |               |                 |           |
| 5               | 16QAM      | 24      | 0         | 20.67                 | 20.67                  | 20.67                  |                        |               |                 |           |
| 5               | 8QAM       | 1       | 0         | 20.65                 | 20.42                  | 20.65                  |                        |               |                 |           |
| 5               | 8QAM       | 1       | 12        | 20.44                 | 20.48                  | 20.77                  | 24                     | 0             |                 |           |
| 5               | 8QAM       | 1       | 24        | 20.58                 | 20.70                  | 20.61                  |                        |               |                 |           |
| 5               | 8QAM       | 12      | 0         | 21.17                 | 21.30                  | 21.40                  |                        |               |                 |           |
| 5               | 8QAM       | 12      | 7         | 21.20                 | 21.20                  | 21.16                  | 23                     | 1             |                 |           |
| 5               | 8QAM       | 12      | 13        | 21.38                 | 21.27                  | 21.41                  |                        |               |                 |           |
| 5               | 8QAM       | 24      | 0         | 20.70                 | 20.61                  | 20.67                  |                        |               |                 |           |
| 5               | 25QAM      | 1       | 0         | 19.75                 | 19.67                  | 19.62                  |                        |               |                 |           |
| 5               | 25QAM      | 1       | 12        | 19.80                 | 19.64                  | 19.67                  | 21                     | 3             |                 |           |
| 5               | 25QAM      | 1       | 24        | 19.84                 | 19.68                  | 19.64                  |                        |               |                 |           |
| 5               | 25QAM      | 12      | 0         | 19.75                 | 19.65                  | 19.67                  |                        |               |                 |           |
| 5               | 25QAM      | 12      | 7         | 19.73                 | 19.81                  | 19.65                  | 21                     | 3             |                 |           |
| 5               | 25QAM      | 12      | 13        | 19.76                 | 19.84                  | 19.68                  |                        |               |                 |           |
| 5               | 25QAM      | 24      | 0         | 19.84                 | 19.68                  | 19.73                  |                        |               |                 |           |
| Channel         |            |         |           |                       |                        |                        |                        |               |                 |           |
| Frequency [MHz] |            |         |           |                       |                        |                        |                        |               |                 |           |
| 3               | QPSK       | 1       | 0         | 20.48                 | 20.47                  | 20.48                  |                        |               |                 |           |
| 3               | QPSK       | 1       | 8         | 20.81                 | 20.80                  | 20.87                  | 24                     | 0             |                 |           |
| 3               | QPSK       | 1       | 14        | 20.59                 | 20.60                  | 20.68                  |                        |               |                 |           |
| 3               | QPSK       | 8       | 0         | 20.58                 | 20.71                  | 20.48                  |                        |               |                 |           |
| 3               | QPSK       | 8       | 8         | 20.80                 | 20.78                  | 20.86                  | 24                     | 0             |                 |           |
| 3               | QPSK       | 8       | 7         | 20.43                 | 20.48                  | 20.59                  |                        |               |                 |           |
| 3               | QPSK       | 16      | 0         | 20.61                 | 20.60                  | 20.64                  |                        |               |                 |           |
| 3               | 16QAM      | 1       | 0         | 20.58                 | 20.70                  | 20.61                  |                        |               |                 |           |
| 3               | 16QAM      | 1       | 8         | 20.62                 | 20.60                  | 20.60                  | 24                     | 0             |                 |           |
| 3               | 16QAM      | 1       | 14        | 20.60                 | 20.60                  | 20.61                  |                        |               |                 |           |
| 3               | 16QAM      | 8       | 0         | 20.48                 | 20.61                  | 20.61                  |                        |               |                 |           |
| 3               | 16QAM      | 8       | 8         | 20.67                 | 20.63                  | 20.67                  | 24                     | 0             |                 |           |
| 3               | 16QAM      | 8       | 7         | 20.69                 | 20.57                  | 20.74                  |                        |               |                 |           |
| 3               | 16QAM      | 16      | 0         | 20.71                 | 20.63                  | 20.67                  |                        |               |                 |           |
| 3               | 8QAM       | 1       | 0         | 20.52                 | 20.38                  | 20.52                  |                        |               |                 |           |
| 3               | 8QAM       | 1       | 8         | 20.61                 | 20.61                  | 20.61                  | 24                     | 0             |                 |           |
| 3               | 8QAM       | 1       | 14        | 20.60                 | 20.60                  | 20.61                  |                        |               |                 |           |
| 3               | 8QAM       | 8       | 0         | 20.48                 | 20.61                  | 20.61                  |                        |               |                 |           |
| 3               | 8QAM       | 8       | 8         | 20.67                 | 20.63                  | 20.67                  | 24                     | 0             |                 |           |
| 3               | 8QAM       | 8       | 7         | 20.69                 | 20.57                  | 20.74                  |                        |               |                 |           |
| 3               | 8QAM       | 16      | 0         | 20.71                 | 20.63                  | 20.67                  |                        |               |                 |           |
| 3               | 25QAM      | 1       | 0         | 19.66                 | 19.62                  | 19.69                  |                        |               |                 |           |
| 3               | 25QAM      | 1       | 8         | 19.83                 | 19.65                  | 19.69                  | 21                     | 3             |                 |           |
| 3               | 25QAM      | 1       | 14        | 19.81                 | 19.64                  | 19.67                  |                        |               |                 |           |
| 3               | 25QAM      | 8       | 0         | 19.67                 | 19.75                  | 19.75                  |                        |               |                 |           |
| 3               | 25QAM      | 8       | 8         | 19.81                 | 19.75                  | 19.83                  | 21                     | 3             |                 |           |
| 3               | 25QAM      | 8       | 7         | 19.72                 | 19.81                  | 19.65                  |                        |               |                 |           |
| 3               | 25QAM      | 16      | 0         | 19.76                 | 19.67                  | 19.68                  |                        |               |                 |           |
| Channel         |            |         |           |                       |                        |                        |                        |               |                 |           |
| Frequency [MHz] |            |         |           |                       |                        |                        |                        |               |                 |           |
| 1.4             | QPSK       | 1       | 0         | 20.63                 | 20.68                  | 20.62                  |                        |               |                 |           |
| 1.4             | QPSK       | 1       | 8         | 20.67                 | 20.60                  | 20.62                  | 24                     | 0             |                 |           |
| 1.4             | QPSK       | 1       | 5         | 20.76                 | 20.62                  | 20.64                  |                        |               |                 |           |
| 1.4             | QPSK       | 3       | 0         | 20.68                 | 20.65                  | 20.75                  |                        |               |                 |           |
| 1.4             | QPSK       | 3       | 5         | 20.68                 | 20.60                  | 20.61                  |                        |               |                 |           |
| 1.4             | QPSK       | 3       | 5         | 20.69                 | 20.62                  | 20.70                  |                        |               |                 |           |
| 1.4             | QPSK       | 6       | 0         | 20.63                 | 20.70                  | 20.75                  | 24                     | 0             |                 |           |
| 1.4             | 16QAM      | 1       | 0         | 20.61                 | 20.74                  | 20.61                  |                        |               |                 |           |
| 1.4             | 16QAM      | 1       | 8         | 20.71                 | 20.66                  | 20.63                  |                        |               |                 |           |
| 1.4             | 16QAM      | 1       | 5         | 20.58                 | 20.60                  | 20.75                  | 24                     | 0             |                 |           |
| 1.4             | 16QAM      | 3       | 0         | 20.63                 | 20.60                  | 20.69                  |                        |               |                 |           |
| 1.4             | 16QAM      | 3       | 5         | 20.64                 | 20.60                  | 20.65                  |                        |               |                 |           |
| 1.4             | 16QAM      | 3       | 5         | 20.63                 | 20.60                  | 20.79                  |                        |               |                 |           |
| 1.4             | 16QAM      | 6       | 0         | 20.76                 | 20.48                  | 20.75                  | 24                     | 0             |                 |           |
| 1.4             | 8QAM       | 1       | 0         | 20.70                 | 20.60                  | 20.62                  |                        |               |                 |           |
| 1.4             | 8QAM       | 1       | 5         | 20.36                 | 20.63                  | 20.61                  |                        |               |                 |           |
| 1.4             | 8QAM       | 1       | 5         | 20.34                 | 20.63                  | 20.61                  |                        |               |                 |           |
| 1.4             | 8QAM       | 1       | 5         | 20.34                 | 20.72                  | 20.61                  | 24                     | 0             |                 |           |
| 1.4             | 8QAM       | 3       | 0         | 20.60                 | 20.61                  | 20.62                  |                        |               |                 |           |
| 1.4             | 8QAM       | 3       | 5         | 20.47                 | 20.43                  | 20.25                  |                        |               |                 |           |
| 1.4             | 8QAM       | 3       | 5         | 20.51                 | 20.20                  | 20.63                  |                        |               |                 |           |
| 1.4             | 8QAM       | 6       | 0         | 21.58                 | 21.53                  | 21.65                  | 23                     | 1             |                 |           |
| 1.4             | 25QAM      | 1       | 0         | 19.62                 | 19.60                  | 19.64                  |                        |               |                 |           |
| 1.4             | 25QAM      | 1       | 5         | 19.73                 | 19.70                  | 19.69                  |                        |               |                 |           |
| 1.4             | 25QAM      | 1       | 5         | 19.73                 | 19.68                  | 19.73                  | 21                     | 3             |                 |           |
| 1.4             | 25QAM      | 3       | 0         | 19.67                 | 19.67                  | 19.68                  |                        |               |                 |           |
| 1.4             | 25QAM      | 3       | 5         | 19.72                 | 19.70                  | 19.69                  |                        |               |                 |           |
| 1.4             | 25QAM      | 3       | 5         | 19.75                 | 19.62                  | 19.64                  |                        |               |                 |           |
| 1.4             | 25QAM      | 6       | 0         | 19.76                 | 19.70                  | 19.75                  | 21                     | 3             |                 |           |

| Band 5_Ant 1    |            |         |           |                       |                        |                        |                        |                   |                     |           |
|-----------------|------------|---------|-----------|-----------------------|------------------------|------------------------|------------------------|-------------------|---------------------|-----------|
| BW [MHz]        | Modulation | RS Rate | RG Offset | Power Low Ch. [Freq.] | Power High Ch. [Freq.] | Power Mod. Ch. [Freq.] | Power High Ch. [Freq.] | Turnup time (sec) | Turndown time (sec) | APRS (dB) |
| Channel         |            |         |           |                       |                        |                        |                        |                   |                     |           |
| Frequency [MHz] |            |         |           |                       |                        |                        |                        |                   |                     |           |
| 10              | QPSK       | 1       | 0         | 22.64                 | 22.72                  | 22.77                  |                        |                   |                     |           |
| 10              | QPSK       | 1       | 25        | 22.63                 | 22.64                  | 22.67                  | 24                     | 0                 |                     |           |
| 10              | QPSK       | 25      | 0         | 22.70                 | 22.70                  | 22.74                  |                        |                   |                     |           |
| 10              | QPSK       | 25      | 12        | 22.80                 | 22.60                  | 22.84                  | 24                     | 0                 |                     |           |
| 10              | QPSK       | 25      | 25        | 22.76                 | 22.76                  | 22.77                  |                        |                   |                     |           |
| 10              | QPSK       | 50      | 0         | 22.77                 | 22.66                  | 22.81                  |                        |                   |                     |           |
| 10              | 16QAM      | 1       | 0         | 22.65                 | 22.67                  | 22.67                  |                        |                   |                     |           |
| 10              | 16QAM      | 1       | 25        | 22.70                 | 22.70                  | 22.77                  | 24                     | 0                 |                     |           |
| 10              | 16QAM      | 1       | 49        | 22.71                 | 22.60                  | 22.70                  |                        |                   |                     |           |
| 10              | 16QAM      | 25      | 0         | 22.40                 | 22.41                  | 22.44                  |                        |                   |                     |           |
| 10              | 16QAM      | 25      | 12        | 22.38                 | 22.40                  | 22.42                  | 24                     | 0                 |                     |           |
| 10              | 16QAM      | 25      | 49        | 22.34                 | 22.36                  | 22.40                  |                        |                   |                     |           |
| 10              | 16QAM      | 50      | 0         | 22.53                 | 22.34                  | 22.49                  |                        |                   |                     |           |
| 10              | 8QAM       | 1       | 0         | 22.63                 | 22.71                  | 22.60                  | 24                     | 0                 |                     |           |
| 10              | 8QAM       | 1       | 25        | 22.63                 | 22.66                  | 22.62                  |                        |                   |                     |           |
| 10              | 8QAM       | 25      | 0         | 20.62                 | 20.60                  | 20.56                  |                        |                   |                     |           |
| 10              | 8QAM       | 25      | 12        | 20.59                 | 20.55                  | 20.55                  | 23                     | 1                 |                     |           |
| 10              | 8QAM       | 50      | 0         | 20.19                 | 20.19                  | 20.16                  |                        |                   |                     |           |
| 20              | 25QAM      | 1       | 0         | 19.79                 | 19.80                  | 19.79                  |                        |                   |                     |           |
| 20              | 25QAM      | 1       | 25        | 19.85                 | 19.86                  | 19.81                  |                        |                   |                     |           |
| 20              | 25QAM      | 1       | 49        | 19.67                 | 19.65                  | 19.62                  | 21                     | 3                 |                     |           |
| 20              | 25QAM      | 25      | 0         | 19.78                 | 19.78                  | 19.74                  |                        |                   |                     |           |
| 20              | 25QAM      | 25      | 12        | 19.88                 | 19.68                  | 19.84                  | 21                     | 3                 |                     |           |
| 20              | 25QAM      | 50      | 0         | 19.83                 | 19.63                  | 19.81                  |                        |                   |                     |           |
| Band 5_Ant 2    |            |         |           |                       |                        |                        |                        |                   |                     |           |
| Frequency [MHz] |            |         |           |                       |                        |                        |                        |                   |                     |           |
| 5               | QPSK       | 1       | 0         | 22.39                 | 22.67                  | 22.80                  |                        |                   |                     |           |
| 5               | QPSK       | 1       | 52        | 22.77                 | 22.62                  | 22.70                  |                        |                   |                     |           |
| 5               | QPSK       | 12      | 0         | 22.73                 | 22.71                  | 22.74                  | 24                     | 0                 |                     |           |
| 5               | QPSK       | 12      | 25        | 22.48                 | 22.38                  | 22.48                  |                        |                   |                     |           |
| 5               | QPSK       | 12      | 7         | 22.84                 | 22.74                  | 22.70                  |                        |                   |                     |           |
| 5               | QPSK       | 12      | 18        | 22.55                 | 22.58                  | 22.71                  |                        |                   |                     |           |
| 5               | QPSK       | 12      | 50        | 22.50                 | 22.42                  | 22.43                  |                        |                   |                     |           |
| 5               | 8QAM       | 1       | 0         | 22.61                 | 22.63                  | 22.65                  |                        |                   |                     |           |
| 5               | 8QAM       | 1       | 12        | 22.72                 | 22.65                  | 22.74                  | 24                     | 0                 |                     |           |
| 5               | 8QAM       | 1       | 25        | 22.73                 | 22.66                  | 22.74                  |                        |                   |                     |           |
| 5               | 8QAM       | 12      | 0         | 22.21                 | 22.37                  | 22.39                  |                        |                   |                     |           |
| 5               | 8QAM       | 12      | 7         | 22.38                 | 22.39                  | 22.40                  |                        |                   |                     |           |
| 5               | 8QAM       | 12      | 18        | 22.58                 | 22.57                  | 22.64                  |                        |                   |                     |           |
| 5               | 8QAM       | 12      | 50        | 22.27                 | 22.40                  | 22.37                  |                        |                   |                     |           |
| 5               | 8QAM       | 1       | 0         | 22.56                 | 22.79                  | 22.42                  |                        |                   |                     |           |
| 5               | 8QAM       | 1       | 12        | 22.72                 | 22.63                  | 22.38                  |                        |                   |                     |           |
| 5               | 8QAM       | 1       | 25        | 22.73                 | 22.64                  | 22.39                  |                        |                   |                     |           |
| 5               | 8QAM       | 12      | 0         | 21.96                 | 22.04                  | 22.02                  |                        |                   |                     |           |
| 5               | 8QAM       | 12      | 7         | 22.13                 | 22.10                  | 21.94                  |                        |                   |                     |           |
| 5               | 8QAM       | 12      | 18        | 22.19                 | 22.23                  | 21.87                  |                        |                   |                     |           |
| 5               | 8QAM       | 12      | 50        | 22.04                 | 22.09                  | 21.83                  |                        |                   |                     |           |
| 5               | 25QAM      | 1       | 0         | 19.87                 | 19.91                  | 19.88                  |                        |                   |                     |           |
| 5               | 25QAM      | 1       | 12        | 19.87                 | 19.90                  | 19.86                  | 21                     | 3                 |                     |           |
| 5               | 25QAM      | 1       | 25        | 19.88                 | 19.86                  | 19.84                  |                        |                   |                     |           |
| 5               | 25QAM      | 12      | 0         | 19.78                 | 19.75                  | 19.70                  |                        |                   |                     |           |
| 5               | 25QAM      | 12      | 7         | 19.90                 | 19.92                  | 19.83                  |                        |                   |                     |           |
| 5               | 25QAM      | 12      | 18        | 19.74                 | 19.76                  | 19.71                  |                        |                   |                     |           |
| 5               | 25QAM      | 12      | 50        | 19.82                 | 19.81                  | 19.71                  |                        |                   |                     |           |
| Channel         |            |         |           |                       |                        |                        |                        |                   |                     |           |
| Frequency [MHz] |            |         |           |                       |                        |                        |                        |                   |                     |           |
| 3               | QPSK       | 1       | 0         | 22.56                 | 22.72                  | 22.77                  |                        |                   |                     |           |
| 3               | QPSK       | 1       | 25        | 22.71                 | 22.72                  | 22.73                  | 24                     | 0                 |                     |           |
| 3               | QPSK       | 1       | 14        | 22.67                 | 22.80                  | 22.85                  |                        |                   |                     |           |
| 3               | QPSK       | 8       | 0         | 22.52                 | 22.64                  | 22.65                  |                        |                   |                     |           |
| 3               | QPSK       | 8       | 12        | 22.52                 | 22.62                  | 22.63                  |                        |                   |                     |           |
| 3               | QPSK       | 8       | 7         | 22.69                 | 22.58                  | 22.74                  |                        |                   |                     |           |
| 3               | QPSK       | 16      | 0         | 22.55                 | 22.53                  | 22.70                  |                        |                   |                     |           |
| 3               | 16QAM      | 1       | 0         | 22.68                 | 22.71                  | 22.73                  |                        |                   |                     |           |
| 3               | 16QAM      | 1       | 25        | 22.70                 | 22.69                  | 22.73                  | 24                     | 0                 |                     |           |
| 3               | 16QAM      | 1       | 14        | 22.52                 | 22.84                  | 22.85                  |                        |                   |                     |           |
| 3               | 16QAM      | 8       | 0         | 22.27                 | 22.38                  | 22.18                  |                        |                   |                     |           |
| 3               | 16QAM      | 8       | 12        | 22.42                 | 22.42                  | 22.43                  |                        |                   |                     |           |
| 3               | 16QAM      | 8       | 7         | 22.21                 | 22.45                  | 22.18                  |                        |                   |                     |           |
| 3               | 16QAM      | 16      | 0         | 22.42                 | 22.23                  | 22.32                  |                        |                   |                     |           |
| 3               | 16QAM      | 16      | 12        | 22.59                 | 22.59                  | 22.60                  |                        |                   |                     |           |
| 3               | 16QAM      | 1       | 0         | 22.64                 | 22.63                  | 22.71                  | 24                     | 0                 |                     |           |
| 3               | 16QAM      | 1       | 14        | 22.33                 | 22.38                  | 22.61                  |                        |                   |                     |           |
| 3               | 16QAM      | 8       | 0         | 21.83                 | 22.13                  | 22.33                  |                        |                   |                     |           |
| 3               | 16QAM      | 8       | 12        | 22.06                 | 22.06                  | 22.07                  |                        |                   |                     |           |
| 3               | 16QAM      | 8       | 7         | 22.12                 | 22.21                  | 22.15                  | 23                     | 1                 |                     |           |
| 3               | 16QAM      | 16      | 0         | 22.09                 | 22.17                  | 21.86                  |                        |                   |                     |           |
| 3               | 16QAM      | 16      | 12        | 22.13                 | 22.13                  | 22.14                  |                        |                   |                     |           |
| 3               | 16QAM      | 1       | 0         | 19.86                 | 19.91                  | 19.90                  | 21                     | 3                 |                     |           |
| 3               | 25QAM      | 1       | 14        | 19.78                 | 19.51                  | 19.68                  |                        |                   |                     |           |
| 3               | 25QAM      | 8       | 0         | 19.73                 | 19.71                  | 19.68                  |                        |                   |                     |           |
| 3               | 25QAM      | 8       | 12        | 19.82                 | 19.82                  | 19.84                  | 21                     | 3                 |                     |           |
| 3               | 25QAM      | 8       | 7         | 19.50                 | 19.68                  | 19.53                  |                        |                   |                     |           |
| 3               | 25QAM      | 16      | 0         | 19.81                 | 19.84                  | 19.73                  |                        |                   |                     |           |
| Band 5_Ant 3    |            |         |           |                       |                        |                        |                        |                   |                     |           |
| Frequency [MHz] |            |         |           |                       |                        |                        |                        |                   |                     |           |
| 1.4             | QPSK       | 1       | 0         | 22.79                 | 22.80                  | 22.80                  |                        |                   |                     |           |
| 1.4             | QPSK       | 1       | 3         | 22.64                 | 22.88                  | 22.80                  |                        |                   |                     |           |
| 1.4             | QPSK       | 1       | 7         | 22.77                 | 22.77                  | 22.77                  | 24                     | 0                 |                     |           |
| 1.4             | QPSK       | 1       | 3         | 22.78                 | 22.67                  | 22.78                  |                        |                   |                     |           |
| 1.4             | QPSK       | 3       | 0         | 22.76                 | 22.67                  | 22.56                  |                        |                   |                     |           |
| 1.4             | QPSK       | 3       | 3         | 22.80                 | 22.80                  | 22.80                  |                        |                   |                     |           |
| 1.4             | QPSK       | 3       | 7         | 22.80                 | 22.77                  | 22.77                  | 24                     | 0                 |                     |           |
| 1.4             | 16QAM      | 1       | 0         | 22.70                 | 22.48                  | 22.88                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 1       | 3         | 22.42                 | 22.51                  | 22.78                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 1       | 7         | 22.78                 | 22.78                  | 22.78                  | 24                     | 0                 |                     |           |
| 1.4             | 16QAM      | 3       | 0         | 22.12                 | 22.44                  | 22.22                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 3       | 3         | 22.31                 | 22.50                  | 22.50                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 3       | 7         | 22.25                 | 22.51                  | 22.51                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 7       | 0         | 22.44                 | 22.14                  | 22.44                  | 24                     | 0                 |                     |           |
| 1.4             | 16QAM      | 1       | 0         | 22.60                 | 22.77                  | 22.63                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 1       | 3         | 22.71                 | 22.68                  | 22.73                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 1       | 7         | 22.74                 | 22.74                  | 22.74                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 3       | 0         | 22.03                 | 22.80                  | 22.80                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 3       | 3         | 22.73                 | 22.77                  | 22.73                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 3       | 7         | 22.83                 | 22.56                  | 22.80                  |                        |                   |                     |           |
| 1.4             | 16QAM      | 7       | 0         | 21.92                 | 22.16                  | 22.16                  | 23                     | 1                 |                     |           |
| 1.4             | 25QAM      | 1       | 0         | 19.72                 | 19.62                  | 19.64                  |                        |                   |                     |           |
| 1.4             | 25QAM      | 1       | 3         | 19.86                 | 19.67                  | 19.62                  |                        |                   |                     |           |
| 1.4             | 25QAM      | 1       | 7         | 19.81                 | 19.61                  | 19.61                  |                        |                   |                     |           |
| 1.4             | 25QAM      | 3       | 0         | 19.78                 | 19.74                  | 19.70                  | 21                     | 3                 |                     |           |
| 1.4             | 25QAM      | 3       | 3         | 19.82                 | 19.82                  | 19.72                  |                        |                   |                     |           |
| 1.4             | 25QAM      | 3       | 7         | 19.74                 | 19.94                  | 19.87                  |                        |                   |                     |           |
| 1.4             | 25QAM      | 7       | 0         | 19.74                 | 19.94                  | 19.87                  | 21                     | 3                 |                     |           |

| Band 12_Ant 0   |            |         |         |                       |                        |                        |               |           |  |  |  |
|-----------------|------------|---------|---------|-----------------------|------------------------|------------------------|---------------|-----------|--|--|--|
| BW (MHz)        | Modulation | RS Rate | RS Code | Power Low Ch. (Freq.) | Power High Ch. (Freq.) | Power High Ch. (Freq.) | Turn-up (dBm) | APRS (dB) |  |  |  |
| Channel         |            |         |         |                       |                        |                        |               |           |  |  |  |
| Frequency (MHz) |            |         |         | 23600                 | 23605                  | 23610                  |               |           |  |  |  |
| 10              | QPSK       | 1       | 0       | 22.84                 | 23.04                  | 23.10                  |               |           |  |  |  |
| 10              | QPSK       | 1       | 25      | 23.12                 | 23.25                  | 23.20                  | 24            | 0         |  |  |  |
| 10              | QPSK       | 1       | 49      | 22.98                 | 23.18                  | 23.16                  |               |           |  |  |  |
| 10              | QPSK       | 25      | 0       | 23.00                 | 23.08                  | 23.08                  |               |           |  |  |  |
| 10              | QPSK       | 25      | 12      | 23.10                 | 23.14                  | 23.14                  |               |           |  |  |  |
| 10              | QPSK       | 25      | 25      | 22.95                 | 23.09                  | 23.09                  |               |           |  |  |  |
| 10              | QPSK       | 50      | 0       | 23.00                 | 23.17                  | 23.12                  |               |           |  |  |  |
| 10              | 16QAM      | 1       | 0       | 23.12                 | 23.13                  | 23.13                  |               |           |  |  |  |
| 10              | 16QAM      | 1       | 25      | 22.87                 | 23.14                  | 23.05                  | 24            | 0         |  |  |  |
| 10              | 16QAM      | 1       | 49      | 22.91                 | 23.04                  | 22.85                  |               |           |  |  |  |
| 10              | 16QAM      | 25      | 0       | 23.02                 | 23.19                  | 23.12                  |               |           |  |  |  |
| 10              | 16QAM      | 25      | 12      | 23.14                 | 23.01                  | 23.15                  |               |           |  |  |  |
| 10              | 16QAM      | 25      | 25      | 22.98                 | 23.09                  | 23.12                  |               |           |  |  |  |
| 10              | 16QAM      | 50      | 0       | 23.02                 | 23.09                  | 23.08                  |               |           |  |  |  |
| 10              | 8QAM       | 1       | 0       | 22.96                 | 22.98                  | 22.99                  |               |           |  |  |  |
| 10              | 8QAM       | 1       | 25      | 23.19                 | 23.09                  | 23.19                  | 24            | 0         |  |  |  |
| 10              | 8QAM       | 1       | 25      | 23.01                 | 23.07                  | 23.07                  |               |           |  |  |  |
| 10              | 8QAM       | 25      | 0       | 23.04                 | 23.06                  | 23.07                  |               |           |  |  |  |
| 10              | 8QAM       | 25      | 12      | 23.11                 | 23.02                  | 23.19                  |               |           |  |  |  |
| 10              | 8QAM       | 25      | 25      | 23.04                 | 23.07                  | 23.09                  |               |           |  |  |  |
| 10              | 8QAM       | 50      | 0       | 23.05                 | 23.02                  | 23.06                  |               |           |  |  |  |
| 25QAM           | 1          | 0       | 19.93   | 19.95                 | 19.88                  |                        |               |           |  |  |  |
| 25QAM           | 1          | 25      | 19.98   | 19.87                 | 19.98                  |                        |               |           |  |  |  |
| 25QAM           | 1          | 49      | 19.95   | 19.10                 | 19.97                  | 21                     | 3             |           |  |  |  |
| 25QAM           | 25         | 0       | 19.58   | 19.85                 | 19.87                  |                        |               |           |  |  |  |
| 25QAM           | 25         | 12      | 20.01   | 19.94                 | 20.00                  |                        |               |           |  |  |  |
| 25QAM           | 25         | 25      | 19.98   | 19.98                 | 19.99                  |                        |               |           |  |  |  |
| 25QAM           | 50         | 0       | 19.93   | 19.89                 | 19.84                  |                        |               |           |  |  |  |
| Channel         |            |         |         |                       |                        |                        |               |           |  |  |  |
| Frequency (MHz) |            |         |         | 701.5                 | 807.5                  | 813.5                  | Turn-up (dBm) | APRS (dB) |  |  |  |
| 5               | QPSK       | 1       | 0       | 23.01                 | 23.05                  | 23.04                  |               |           |  |  |  |
| 5               | QPSK       | 1       | 12      | 23.06                 | 23.00                  | 23.03                  | 24            | 0         |  |  |  |
| 5               | QPSK       | 1       | 24      | 22.94                 | 23.23                  | 22.89                  |               |           |  |  |  |
| 5               | QPSK       | 12      | 0       | 22.95                 | 22.97                  | 22.96                  |               |           |  |  |  |
| 5               | QPSK       | 12      | 7       | 22.85                 | 23.04                  | 23.03                  |               |           |  |  |  |
| 5               | QPSK       | 12      | 13      | 23.02                 | 22.84                  | 23.02                  |               |           |  |  |  |
| 5               | QPSK       | 24      | 0       | 22.99                 | 23.01                  | 23.04                  |               |           |  |  |  |
| 5               | 16QAM      | 1       | 0       | 22.96                 | 22.97                  | 22.98                  |               |           |  |  |  |
| 5               | 16QAM      | 1       | 12      | 22.92                 | 22.89                  | 22.94                  | 24            | 0         |  |  |  |
| 5               | 16QAM      | 1       | 24      | 22.91                 | 23.06                  | 22.83                  |               |           |  |  |  |
| 5               | 16QAM      | 12      | 0       | 23.00                 | 23.14                  | 23.00                  |               |           |  |  |  |
| 5               | 16QAM      | 12      | 7       | 22.92                 | 22.75                  | 23.04                  |               |           |  |  |  |
| 5               | 16QAM      | 12      | 13      | 22.91                 | 22.83                  | 23.17                  |               |           |  |  |  |
| 5               | 16QAM      | 24      | 0       | 22.96                 | 22.94                  | 22.94                  |               |           |  |  |  |
| 5               | 8QAM       | 1       | 0       | 22.72                 | 22.88                  | 22.85                  |               |           |  |  |  |
| 5               | 8QAM       | 1       | 12      | 23.09                 | 23.00                  | 23.00                  | 24            | 0         |  |  |  |
| 5               | 8QAM       | 1       | 24      | 22.94                 | 23.07                  | 22.95                  |               |           |  |  |  |
| 5               | 8QAM       | 12      | 0       | 23.03                 | 23.14                  | 23.07                  |               |           |  |  |  |
| 5               | 8QAM       | 12      | 7       | 23.12                 | 23.10                  | 23.19                  | 23            | 1         |  |  |  |
| 5               | 8QAM       | 12      | 13      | 23.08                 | 23.06                  | 23.02                  |               |           |  |  |  |
| 5               | 25QAM      | 1       | 0       | 19.86                 | 19.76                  | 19.85                  |               |           |  |  |  |
| 5               | 25QAM      | 1       | 12      | 20.00                 | 20.14                  | 20.12                  | 21            | 3         |  |  |  |
| 5               | 25QAM      | 1       | 24      | 20.04                 | 20.06                  | 20.05                  |               |           |  |  |  |
| 5               | 25QAM      | 12      | 0       | 19.51                 | 19.57                  | 19.51                  |               |           |  |  |  |
| 5               | 25QAM      | 12      | 7       | 20.01                 | 19.85                  | 19.84                  |               |           |  |  |  |
| 5               | 25QAM      | 12      | 13      | 19.92                 | 19.88                  | 19.88                  | 21            | 3         |  |  |  |
| 5               | 25QAM      | 25      | 0       | 19.90                 | 19.92                  | 19.87                  |               |           |  |  |  |
| Channel         |            |         |         |                       |                        |                        |               |           |  |  |  |
| Frequency (MHz) |            |         |         | 701.5                 | 807.5                  | 744.5                  | Turn-up (dBm) | APRS (dB) |  |  |  |
| 3               | QPSK       | 1       | 0       | 22.84                 | 22.87                  | 22.87                  |               |           |  |  |  |
| 3               | QPSK       | 1       | 8       | 23.17                 | 23.21                  | 23.19                  | 24            | 0         |  |  |  |
| 3               | QPSK       | 1       | 14      | 22.87                 | 23.12                  | 22.89                  |               |           |  |  |  |
| 3               | QPSK       | 8       | 0       | 22.92                 | 23.02                  | 22.73                  |               |           |  |  |  |
| 3               | QPSK       | 8       | 8       | 22.91                 | 23.05                  | 22.85                  |               |           |  |  |  |
| 3               | QPSK       | 8       | 7       | 22.79                 | 22.83                  | 23.02                  |               |           |  |  |  |
| 3               | QPSK       | 15      | 0       | 22.98                 | 23.11                  | 23.06                  |               |           |  |  |  |
| 3               | 16QAM      | 1       | 0       | 22.81                 | 23.20                  | 23.14                  |               |           |  |  |  |
| 3               | 16QAM      | 1       | 8       | 22.85                 | 23.21                  | 22.83                  | 24            | 0         |  |  |  |
| 3               | 16QAM      | 1       | 14      | 22.84                 | 22.84                  | 23.09                  |               |           |  |  |  |
| 3               | 16QAM      | 8       | 0       | 22.79                 | 23.01                  | 22.91                  |               |           |  |  |  |
| 3               | 16QAM      | 8       | 8       | 22.92                 | 23.02                  | 22.92                  |               |           |  |  |  |
| 3               | 16QAM      | 8       | 7       | 22.89                 | 22.95                  | 23.04                  |               |           |  |  |  |
| 3               | 16QAM      | 15      | 0       | 22.97                 | 23.03                  | 22.87                  |               |           |  |  |  |
| 3               | 8QAM       | 1       | 0       | 22.76                 | 22.86                  | 22.82                  |               |           |  |  |  |
| 3               | 8QAM       | 1       | 8       | 22.94                 | 23.11                  | 23.15                  | 24            | 0         |  |  |  |
| 3               | 8QAM       | 1       | 14      | 22.93                 | 22.95                  | 22.91                  |               |           |  |  |  |
| 3               | 8QAM       | 8       | 0       | 23.03                 | 23.07                  | 23.13                  |               |           |  |  |  |
| 3               | 8QAM       | 8       | 4       | 21.97                 | 21.98                  | 21.85                  | 23            | 1         |  |  |  |
| 3               | 8QAM       | 8       | 7       | 21.39                 | 21.51                  | 21.58                  |               |           |  |  |  |
| 3               | 8QAM       | 15      | 0       | 21.43                 | 21.46                  | 21.33                  |               |           |  |  |  |
| 3               | 25QAM      | 1       | 0       | 19.85                 | 19.82                  | 19.81                  |               |           |  |  |  |
| 3               | 25QAM      | 1       | 8       | 19.92                 | 20.12                  | 20.10                  | 21            | 3         |  |  |  |
| 3               | 25QAM      | 1       | 14      | 19.98                 | 19.96                  | 19.84                  |               |           |  |  |  |
| 3               | 25QAM      | 8       | 0       | 19.98                 | 19.93                  | 19.95                  |               |           |  |  |  |
| 3               | 25QAM      | 8       | 4       | 19.94                 | 20.00                  | 19.84                  | 21            | 3         |  |  |  |
| 3               | 25QAM      | 8       | 7       | 20.00                 | 19.87                  | 19.83                  |               |           |  |  |  |
| 3               | 25QAM      | 15      | 0       | 19.84                 | 19.87                  | 19.86                  |               |           |  |  |  |
| Channel         |            |         |         |                       |                        |                        |               |           |  |  |  |
| Frequency (MHz) |            |         |         | 669.7                 | 807.5                  | 734.5                  | Turn-up (dBm) | APRS (dB) |  |  |  |
| 1.4             | QPSK       | 1       | 0       | 23.72                 | 23.06                  | 23.14                  |               |           |  |  |  |
| 1.4             | QPSK       | 1       | 5       | 23.12                 | 23.06                  | 23.19                  |               |           |  |  |  |
| 1.4             | QPSK       | 1       | 5       | 22.88                 | 23.13                  | 23.09                  | 24            | 0         |  |  |  |
| 1.4             | QPSK       | 1       | 5       | 22.88                 | 22.85                  | 22.86                  |               |           |  |  |  |
| 1.4             | QPSK       | 5       | 0       | 23.04                 | 23.07                  | 23.13                  |               |           |  |  |  |
| 1.4             | QPSK       | 5       | 3       | 22.85                 | 23.19                  | 22.84                  |               |           |  |  |  |
| 1.4             | QPSK       | 5       | 0       | 22.87                 | 23.10                  | 23.09                  | 24            | 0         |  |  |  |
| 1.4             | 16QAM      | 1       | 0       | 22.86                 | 23.01                  | 22.88                  |               |           |  |  |  |
| 1.4             | 16QAM      | 1       | 5       | 22.88                 | 23.01                  | 22.73                  | 24            | 0         |  |  |  |
| 1.4             | 16QAM      | 1       | 5       | 22.88                 | 22.85                  | 22.86                  |               |           |  |  |  |
| 1.4             | 16QAM      | 5       | 0       | 22.89                 | 23.02                  | 22.87                  |               |           |  |  |  |
| 1.4             | 16QAM      | 5       | 3       | 22.83                 | 22.75                  | 22.84                  |               |           |  |  |  |
| 1.4             | 16QAM      | 5       | 0       | 22.89                 | 22.88                  | 22.92                  | 24            | 0         |  |  |  |
| 1.4             | 16QAM      | 1       | 0       | 22.91                 | 22.89                  | 22.97                  |               |           |  |  |  |
| 1.4             | 16QAM      | 1       | 5       | 22.95                 | 23.10                  | 23.09                  |               |           |  |  |  |
| 1.4             | 16QAM      | 1       | 5       | 22.92                 | 23.07                  | 23.05                  | 24            | 0         |  |  |  |
| 1.4             | 16QAM      | 5       | 0       | 22.89                 | 22.97                  | 22.83                  |               |           |  |  |  |
| 1.4             | 16QAM      | 5       | 3       | 22.77                 | 22.93                  | 22.85                  |               |           |  |  |  |
| 1.4             | 8QAM       | 1       | 0       | 22.91                 | 22.96                  | 22.96                  |               |           |  |  |  |
| 1.4             | 8QAM       | 1       | 5       | 23.20                 | 23.43                  | 23.12                  | 23            | 1         |  |  |  |
| 1.4             | 8QAM       | 1       | 5       | 19.87                 | 19.84                  | 19.87                  |               |           |  |  |  |
| 1.4             | 25QAM      | 1       | 0       | 19.87                 | 19.86                  | 19.86                  |               |           |  |  |  |
| 1.4             | 25QAM      | 1       | 5       | 19.98                 | 20.10                  | 19.87                  | 21            | 3         |  |  |  |
| 1.4             | 25QAM      | 1       | 5       | 19.87                 | 19.86                  | 19.86                  |               |           |  |  |  |
| 1.4             | 25QAM      | 5       | 0       | 19.95                 | 19.92                  | 19.89                  |               |           |  |  |  |
| 1.4             | 25QAM      | 5       | 3       | 19.95                 | 19.84                  | 19.89                  |               |           |  |  |  |
| 1.4             | 25QAM      | 5       | 0       | 19.87                 | 19.86                  | 19.86                  | 21            | 3         |  |  |  |

| Band 12_Ant 1   |            |         |         |                       |                        |                        |               |           |  |           |  |
|-----------------|------------|---------|---------|-----------------------|------------------------|------------------------|---------------|-----------|--|-----------|--|
| BW (MHz)        | Modulation | RS Rate | RS Code | Power Low Ch. (Freq.) | Power High Ch. (Freq.) | Power High Ch. (Freq.) | Turn-up (dBm) | APRS (dB) |  |           |  |
| Channel         |            |         |         |                       |                        |                        |               |           |  |           |  |
| Frequency (MHz) |            |         |         | 21680                 | 21695                  | 21710                  |               |           |  |           |  |
| 10              | QPSK       | 1       | 0       | 22.72                 | 22.59                  | 22.81                  |               |           |  |           |  |
| 10              | QPSK       | 1       | 25      | 22.82                 | 23.01                  | 22.95                  | 24            | 0         |  |           |  |
| 10              | QPSK       | 1       | 49      | 22.76                 | 22.81                  | 22.80                  |               |           |  |           |  |
| 10              | QPSK       | 25      | 0       | 22.66                 | 22.82                  | 22.70                  |               |           |  |           |  |
| 10              | QPSK       | 25      | 12      | 22.89                 | 22.99                  | 22.93                  |               |           |  |           |  |
| 10              | QPSK       | 25      | 25      | 22.74                 | 22.80                  | 22.88                  | 24            | 0         |  |           |  |
| 10              | QPSK       | 50      | 0       | 22.77                 | 22.97                  | 22.74                  |               |           |  |           |  |
| 10              | 16QAM      | 1       | 0       | 22.76                 | 22.53                  | 22.76                  |               |           |  |           |  |
| 10              | 16QAM      | 1       | 25      | 22.54                 | 23.03                  | 22.95                  | 24            | 0         |  |           |  |
| 10              | 16QAM      | 1       | 49      | 22.77                 | 22.77                  | 22.78                  |               |           |  |           |  |
| 10              | 16QAM      | 25      | 0       | 22.69                 | 22.86                  | 22.76                  |               |           |  |           |  |
| 10              | 16QAM      | 25      | 12      | 22.74                 | 22.77                  | 22.80                  |               |           |  |           |  |
| 10              | 16QAM      | 25      | 25      | 22.77                 | 22.70                  | 22.80                  | 24            | 0         |  |           |  |
| 10              | 16QAM      | 50      | 0       | 22.72                 | 22.75                  | 22.69                  |               |           |  |           |  |
| 10              | 8QAM       | 1       | 0       | 22.85                 | 22.45                  | 22.79                  |               |           |  |           |  |
| 10              | 8QAM       | 1       | 25      | 22.74                 | 22                     |                        |               |           |  |           |  |
| 10              | 8QAM       | 1       | 49      | 22.76                 | 22.76                  | 22.76                  |               |           |  |           |  |
| 10              | 8QAM       | 25      | 0       | 22.67                 | 22.20                  | 21.91                  |               |           |  |           |  |
| 10              | 8QAM       | 25      | 12      | 22.15                 | 22.15                  | 22.15                  |               |           |  |           |  |
| 10              | 8QAM       | 25      | 25      | 21.89                 | 22.18                  | 22.13                  | 23            | 1         |  |           |  |
| 10              | 8QAM       | 50      | 0       | 22.11                 | 22.23                  | 22.08                  |               |           |  |           |  |
| 10              | 8QAM       | 50      | 25      | 22.11                 | 22.11                  | 22.11                  |               |           |  |           |  |
| 10              | 25QAM      | 1       | 25      | 20.10                 | 20.12                  | 19.98                  | 21            | 3         |  |           |  |
| 10              | 25QAM      | 1       | 49      | 20.16                 | 20.16                  | 20.16                  |               |           |  |           |  |
| 10              | 25QAM      | 25      | 0       | 19.85                 | 19.81                  | 19.89                  |               |           |  |           |  |
| 10              | 25QAM      | 25      | 12      | 19.86                 | 19.86                  | 19.87                  |               |           |  |           |  |
| 10              | 25QAM      | 25      | 25      | 19.90                 | 19.93                  | 19.93                  | 21            | 3         |  |           |  |
| 10              | 25QAM      | 50      | 0       | 19.87                 | 19.96                  | 19.84                  |               |           |  |           |  |
| 10              | 25QAM      | 50      | 25      | 19.90                 | 19.90                  | 19.90                  |               |           |  |           |  |
| Frequency (MHz) |            |         |         | 701.5                 | 707.5                  | 713.5                  | Turn-up (dBm) |           |  | APRS (dB) |  |
| 5               | QPSK       | 1       | 0       | 22.20                 | 22.47                  | 22.24                  |               |           |  |           |  |
| 5               | QPSK       | 1       | 12      | 22.71                 | 22.79                  | 22.81                  | 24            | 0         |  |           |  |
| 5               | QPSK       | 1       | 25      | 22.56                 | 22.76                  | 22.56                  |               |           |  |           |  |
| 5               | QPSK       | 12      | 0       | 22.51                 | 22.71                  | 22.63                  |               |           |  |           |  |
| 5               | QPSK       | 12      | 7       | 22.53                 | 22.73                  | 22.63                  |               |           |  |           |  |
| 5               | QPSK       | 12      | 13      | 22.50                 | 22.68                  | 22.60                  |               |           |  |           |  |
| 5               | QPSK       | 15      | 0       | 22.77                 | 22.80                  | 22.81                  |               |           |  |           |  |
| 5               | QPSK       | 15      | 6       | 22.83                 | 22.46                  | 22.67                  |               |           |  |           |  |
| 5               | 16QAM      | 1       | 12      | 22.47                 | 22.85                  | 22.88                  | 24            | 0         |  |           |  |
| 5               | 16QAM      | 1       | 25      | 22.49                 | 22.85                  | 22.85                  |               |           |  |           |  |
| 5               | 16QAM      | 12      | 0       | 22.53                 | 22.92                  | 22.93                  |               |           |  |           |  |
| 5               | 16QAM      | 12      | 7       | 22.68                 | 22.68                  | 22.63                  | 24            | 0         |  |           |  |
| 5               | 16QAM      | 12      | 13      | 22.81                 | 22.56                  | 22.40                  |               |           |  |           |  |
| 5               | 16QAM      | 15      | 0       | 22.67                 | 22.67                  | 22.67                  |               |           |  |           |  |
| 5               | 8QAM       | 1       | 0       | 22.85                 | 22.32                  | 22.59                  |               |           |  |           |  |
| 5               | 8QAM       | 1       | 12      | 22.68                 | 22.56                  | 22.71                  |               |           |  |           |  |
| 5               | 8QAM       | 1       | 25      | 22.77                 | 22.66                  | 22.66                  |               |           |  |           |  |
| 5               | 8QAM       | 12      | 0       | 22.15                 | 22.07                  | 21.99                  |               |           |  |           |  |
| 5               | 8QAM       | 12      | 7       | 22.21                 | 22.07                  | 22.13                  | 23            | 1         |  |           |  |
| 5               | 8QAM       | 12      | 13      | 21.87                 | 22.28                  | 22.20                  |               |           |  |           |  |
| 5               | 8QAM       | 15      | 0       | 21.82                 | 22.09                  | 22.09                  | 24            | 0         |  |           |  |
| 5               | 25QAM      | 1       | 0       | 19.97                 | 19.76                  | 19.76                  |               |           |  |           |  |
| 5               | 25QAM      | 1       | 12      | 20.05                 | 20.04                  | 19.97                  | 21            | 3         |  |           |  |
| 5               | 25QAM      | 1       | 25      | 20.04                 | 20.04                  | 20.04                  |               |           |  |           |  |
| 5               | 25QAM      | 12      | 0       | 19.92                 | 19.84                  | 19.77                  |               |           |  |           |  |
| 5               | 25QAM      | 12      | 7       | 19.82                 | 19.84                  | 19.89                  | 21            | 3         |  |           |  |
| 5               | 25QAM      | 12      | 13      | 19.81                 | 19.82                  | 19.81                  |               |           |  |           |  |
| 5               | 25QAM      | 15      | 0       | 19.77                 | 19.77                  | 19.77                  |               |           |  |           |  |
| Channel         |            |         |         | 21670                 | 21685                  | 21698                  | Turn-up (dBm) |           |  | APRS (dB) |  |
| Frequency (MHz) |            |         |         | 701.5                 | 707.5                  | 714.5                  |               |           |  |           |  |
| 3               | QPSK       | 1       | 0       | 22.80                 | 22.43                  | 22.77                  |               |           |  |           |  |
| 3               | QPSK       | 1       | 25      | 22.74                 | 22.79                  | 22.88                  | 24            | 0         |  |           |  |
| 3               | QPSK       | 1       | 14      | 22.79                 | 22.94                  | 22.91                  |               |           |  |           |  |
| 3               | QPSK       | 8       | 0       | 22.53                 | 22.73                  | 22.53                  |               |           |  |           |  |
| 3               | QPSK       | 8       | 7       | 22.74                 | 22.74                  | 22.74                  |               |           |  |           |  |
| 3               | QPSK       | 8       | 7       | 22.74                 | 22.90                  | 22.89                  | 24            | 0         |  |           |  |
| 3               | QPSK       | 15      | 0       | 22.63                 | 22.87                  | 22.71                  |               |           |  |           |  |
| 3               | 16QAM      | 1       | 0       | 22.80                 | 22.58                  | 22.76                  |               |           |  |           |  |
| 3               | 16QAM      | 1       | 25      | 22.87                 | 22.93                  | 22.93                  |               |           |  |           |  |
| 3               | 16QAM      | 1       | 14      | 22.47                 | 22.83                  | 22.81                  |               |           |  |           |  |
| 3               | 16QAM      | 8       | 0       | 22.74                 | 22.68                  | 22.81                  |               |           |  |           |  |
| 3               | 16QAM      | 8       | 7       | 22.79                 | 22.82                  | 22.84                  |               |           |  |           |  |
| 3               | 16QAM      | 8       | 7       | 22.59                 | 22.48                  | 22.58                  |               |           |  |           |  |
| 3               | 16QAM      | 15      | 0       | 22.72                 | 22.50                  | 22.68                  |               |           |  |           |  |
| 3               | 16QAM      | 15      | 7       | 22.72                 | 22.72                  | 22.72                  |               |           |  |           |  |
| 3               | 16QAM      | 1       | 8       | 22.55                 | 22.75                  | 22.83                  |               |           |  |           |  |
| 3               | 8QAM       | 1       | 14      | 22.70                 | 22.65                  | 22.62                  |               |           |  |           |  |
| 3               | 8QAM       | 8       | 0       | 22.10                 | 21.98                  | 21.99                  |               |           |  |           |  |
| 3               | 8QAM       | 8       | 7       | 22.08                 | 22.07                  | 22.07                  |               |           |  |           |  |
| 3               | 8QAM       | 8       | 7       | 21.89                 | 21.91                  | 21.85                  | 23            | 1         |  |           |  |
| 3               | 8QAM       | 15      | 0       | 21.96                 | 21.97                  | 21.95                  |               |           |  |           |  |
| 3               | 25QAM      | 1       | 0       | 19.82                 | 19.76                  | 19.82                  |               |           |  |           |  |
| 3               | 25QAM      | 1       | 8       | 20.04                 | 20.11                  | 19.96                  | 21            | 3         |  |           |  |
| 3               | 25QAM      | 1       | 14      | 20.06                 | 20.06                  | 20.02                  |               |           |  |           |  |
| 3               | 25QAM      | 8       | 0       | 19.82                 | 19.89                  | 19.82                  |               |           |  |           |  |
| 3               | 25QAM      | 8       | 7       | 19.81                 | 19.82                  | 19.81                  | 21            | 3         |  |           |  |
| 3               | 25QAM      | 15      | 0       | 19.83                 | 19.86                  | 19.84                  |               |           |  |           |  |
| Frequency (MHz) |            |         |         | 698.7                 | 697.7                  | 715.3                  | Turn-up (dBm) |           |  | APRS (dB) |  |
| 1.4             | QPSK       | 1       | 0       | 22.70                 | 22.48                  | 22.58                  |               |           |  |           |  |
| 1.4             | QPSK       | 1       | 3       | 22.87                 | 22.73                  | 22.69                  | 24            | 0         |  |           |  |
| 1.4             | QPSK       | 1       | 5       | 22.81                 | 22.86                  | 22.86                  |               |           |  |           |  |
| 1.4             | QPSK       | 3       | 0       | 22.72                 | 22.77                  | 22.75                  |               |           |  |           |  |
| 1.4             | QPSK       | 3       | 1       | 22.54                 | 22.76                  | 22.70                  |               |           |  |           |  |
| 1.4             | QPSK       | 3       | 3       | 22.52                 | 22.81                  | 22.72                  |               |           |  |           |  |
| 1.4             | QPSK       | 3       | 5       | 22.51                 | 22.72                  | 22.53                  | 24            | 0         |  |           |  |
| 1.4             | 16QAM      | 1       | 0       | 22.71                 | 22.66                  | 22.67                  |               |           |  |           |  |
| 1.4             | 16QAM      | 1       | 3       | 22.54                 | 22.76                  | 22.69                  |               |           |  |           |  |
| 1.4             | 16QAM      | 1       | 5       | 22.86                 | 22.86                  | 22.86                  |               |           |  |           |  |
| 1.4             | 16QAM      | 3       | 0       | 22.66                 | 22.99                  | 22.88                  | 24            | 0         |  |           |  |
| 1.4             | 16QAM      | 3       | 1       | 22.79                 | 22.72                  | 22.83                  |               |           |  |           |  |
| 1.4             | 16QAM      | 3       | 3       | 22.80                 | 22.72                  | 22.70                  |               |           |  |           |  |
| 1.4             | 16QAM      | 3       | 5       | 22.89                 | 22.89                  | 22.89                  |               |           |  |           |  |
| 1.4             | 8QAM       | 1       | 0       | 22.84                 | 22.41                  | 22.81                  |               |           |  |           |  |
| 1.4             | 8QAM       | 1       | 3       | 22.59                 | 22.87                  | 22.84                  |               |           |  |           |  |
| 1.4             | 8QAM       | 1       | 5       | 22.79                 | 22.87                  | 22.84                  |               |           |  |           |  |
| 1.4             | 8QAM       | 3       | 0       | 22.70                 | 22.57                  | 22.58                  | 24            | 0         |  |           |  |
| 1.4             | 8QAM       | 3       | 1       | 22.62                 | 22.84                  | 22.73                  |               |           |  |           |  |
| 1.4             | 8QAM       | 3       | 3       | 22.43                 | 22.82                  | 22.82                  |               |           |  |           |  |
| 1.4             | 8QAM       | 3       | 5       | 22.16                 | 21.98                  | 21.93                  | 23            | 1         |  |           |  |
| 1.4             | 25QAM      | 1       | 0       | 19.80                 | 19.56                  | 19.84                  |               |           |  |           |  |
| 1.4             | 25QAM      | 1       | 3       | 19.84                 | 20.03                  | 19.77                  |               |           |  |           |  |
| 1.4             | 25QAM      | 1       | 5       | 20.02                 | 20.02                  | 20.02                  |               |           |  |           |  |
| 1.4             | 25QAM      | 3       | 0       | 19.72                 | 19.78                  | 19.77                  | 21            | 3         |  |           |  |
| 1.4             | 25QAM      | 3       | 1       | 19.83                 | 19.84                  | 19.78                  |               |           |  |           |  |
| 1.4             | 25QAM      | 3       | 3       | 19.86                 | 19.86                  | 19.86                  |               |           |  |           |  |
| 1.4             | 25QAM      | 3       | 5       | 19.75                 | 19.75                  | 19.94                  | 21            | 3         |  |           |  |



| Band 14_Ant 1   |            |         |           |                   |                   |                   |                   |                |           |
|-----------------|------------|---------|-----------|-------------------|-------------------|-------------------|-------------------|----------------|-----------|
| RF [MHz]        | Modulation | RB Size | RF Offset | Power Level [dBm] | Power Class [dBm] | Power Class [dBm] | Power Class [dBm] | Tune-out [dBm] | APRS (dB) |
| Channel         |            |         |           |                   |                   |                   |                   |                |           |
| 23330           |            |         |           |                   |                   |                   |                   |                |           |
| Frequency [MHz] |            |         |           |                   |                   |                   |                   |                |           |
| 793             |            |         |           |                   |                   |                   |                   |                |           |
| 10              | QPSK       | 1       | 0         | 22.45             |                   |                   |                   |                |           |
| 10              | QPSK       | 1       | 25        | 22.47             |                   |                   |                   | 24             | 0         |
| 10              | QPSK       | 25      | 0         | 22.47             |                   |                   |                   |                |           |
| 10              | QPSK       | 25      | 0         | 22.39             |                   |                   |                   |                |           |
| 10              | QPSK       | 25      | 12        | 22.50             |                   |                   |                   | 24             | 0         |
| 10              | QPSK       | 25      | 0         | 22.47             |                   |                   |                   |                |           |
| 10              | QPSK       | 50      | 0         | 22.47             |                   |                   |                   |                |           |
| 10              | WQAM       | 1       | 0         | 22.46             |                   |                   |                   |                |           |
| 10              | WQAM       | 1       | 25        | 22.31             |                   |                   |                   | 24             | 0         |
| 10              | WQAM       | 25      | 0         | 22.43             |                   |                   |                   |                |           |
| 10              | WQAM       | 25      | 0         | 22.21             |                   |                   |                   |                |           |
| 10              | WQAM       | 25      | 12        | 22.29             |                   |                   |                   | 24             | 0         |
| 10              | WQAM       | 25      | 0         | 22.46             |                   |                   |                   |                |           |
| 10              | WQAM       | 50      | 0         | 22.47             |                   |                   |                   |                |           |
| 10              | WQAM       | 1       | 0         | 22.30             |                   |                   |                   |                |           |
| 10              | WQAM       | 1       | 25        | 22.28             |                   |                   |                   | 24             | 0         |
| 10              | WQAM       | 25      | 0         | 22.26             |                   |                   |                   |                |           |
| 10              | WQAM       | 25      | 0         | 22.04             |                   |                   |                   |                |           |
| 10              | WQAM       | 25      | 12        | 21.97             |                   |                   |                   |                |           |
| 10              | WQAM       | 25      | 0         | 21.99             |                   |                   |                   | 23             | 1         |
| 10              | WQAM       | 50      | 0         | 22.14             |                   |                   |                   |                |           |
| 10              | 25WQAM     | 1       | 0         | 18.74             |                   |                   |                   |                |           |
| 10              | 25WQAM     | 1       | 25        | 18.63             |                   |                   |                   | 21             | 3         |
| 10              | 25WQAM     | 25      | 0         | 18.75             |                   |                   |                   |                |           |
| 10              | 25WQAM     | 25      | 0         | 18.73             |                   |                   |                   |                |           |
| 10              | 25WQAM     | 25      | 12        | 18.88             |                   |                   |                   | 21             | 3         |
| 10              | 25WQAM     | 25      | 0         | 18.78             |                   |                   |                   |                |           |
| 10              | 25WQAM     | 50      | 0         | 18.79             |                   |                   |                   |                |           |
| Channel         |            |         |           |                   |                   |                   |                   |                |           |
| 23355           |            |         |           |                   |                   |                   |                   |                |           |
| Frequency [MHz] |            |         |           |                   |                   |                   |                   |                |           |
| 793             |            |         |           |                   |                   |                   |                   |                |           |
| 5               | QPSK       | 1       | 0         | 22.46             | 22.51             | 22.50             |                   |                |           |
| 5               | QPSK       | 1       | 25        | 22.51             | 22.42             | 22.43             |                   | 24             | 0         |
| 5               | QPSK       | 1       | 24        | 22.47             | 22.34             | 22.24             |                   |                |           |
| 5               | QPSK       | 12      | 0         | 22.42             | 22.33             | 22.45             |                   |                |           |
| 5               | QPSK       | 12      | 7         | 22.45             | 22.43             | 22.48             |                   | 24             | 0         |
| 5               | QPSK       | 25      | 0         | 22.38             | 22.39             | 22.47             |                   |                |           |
| 5               | QPSK       | 25      | 0         | 22.43             | 22.37             | 22.48             |                   |                |           |
| 5               | WQAM       | 1       | 0         | 22.32             | 22.43             | 22.29             |                   |                |           |
| 5               | WQAM       | 1       | 25        | 22.34             | 22.24             | 22.23             |                   | 24             | 0         |
| 5               | WQAM       | 1       | 24        | 22.28             | 22.48             | 22.25             |                   |                |           |
| 5               | WQAM       | 12      | 0         | 22.18             | 22.16             | 22.17             |                   |                |           |
| 5               | WQAM       | 12      | 7         | 22.19             | 22.28             | 22.38             |                   | 24             | 0         |
| 5               | WQAM       | 25      | 0         | 22.26             | 22.38             | 22.12             |                   |                |           |
| 5               | WQAM       | 25      | 0         | 22.30             | 22.45             | 22.25             |                   |                |           |
| 5               | WQAM       | 1       | 0         | 22.38             | 22.38             | 22.37             |                   |                |           |
| 5               | WQAM       | 1       | 25        | 22.12             | 22.50             | 22.23             |                   | 24             | 0         |
| 5               | WQAM       | 1       | 24        | 22.45             | 22.41             | 22.42             |                   |                |           |
| 5               | WQAM       | 12      | 0         | 22.08             | 22.19             | 21.87             |                   |                |           |
| 5               | WQAM       | 12      | 7         | 21.80             | 21.79             | 21.75             |                   | 23             | 1         |
| 5               | WQAM       | 25      | 0         | 21.84             | 22.78             | 21.85             |                   |                |           |
| 5               | WQAM       | 25      | 0         | 21.96             | 22.11             | 21.86             |                   |                |           |
| 5               | 25WQAM     | 1       | 0         | 18.72             | 18.60             | 18.55             |                   |                |           |
| 5               | 25WQAM     | 1       | 25        | 18.76             | 18.74             | 18.61             |                   | 21             | 3         |
| 5               | 25WQAM     | 25      | 0         | 18.80             | 18.76             | 18.84             |                   |                |           |
| 5               | 25WQAM     | 12      | 0         | 18.68             | 18.74             | 18.73             |                   |                |           |
| 5               | 25WQAM     | 12      | 7         | 18.80             | 18.82             | 18.79             |                   | 21             | 3         |
| 5               | 25WQAM     | 25      | 0         | 18.74             | 18.76             | 18.67             |                   |                |           |
| 5               | 25WQAM     | 25      | 0         | 18.78             | 18.78             | 18.76             |                   |                |           |

| Band 17_Ant 0   |            |             |                 |                   |                   |                   |                   |                   |                   |            |
|-----------------|------------|-------------|-----------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------|
| RF [MHz]        | Modulation | RF BW [MHz] | RF Offset [MHz] | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | APRS (dBm) |
| Channel         |            |             |                 | 23780             | 23790             | 23800             |                   |                   |                   |            |
| Frequency [MHz] |            |             |                 | 709               | 710               | 711               |                   |                   |                   |            |
| 10              | QPSK       | 1           | 0               | 22.83             | 22.94             | 22.86             |                   |                   |                   |            |
| 10              | QPSK       | 1           | 25              | 23.59             | 23.21             | 23.03             | 24                | 0                 |                   |            |
| 10              | QPSK       | 5           | 0               | 22.83             | 22.94             | 22.86             |                   |                   |                   |            |
| 10              | QPSK       | 5           | 25              | 22.79             | 22.80             | 22.81             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 12              | 23.07             | 23.19             | 23.03             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 12              | 23.07             | 23.19             | 23.03             | 24                | 0                 |                   |            |
| 10              | QPSK       | 50          | 0               | 23.07             | 22.99             | 22.98             |                   |                   |                   |            |
| 10              | QPSK       | 50          | 0               | 23.05             | 22.18             | 22.93             |                   |                   |                   |            |
| 10              | QPSK       | 1           | 0               | 23.08             | 22.99             | 23.01             |                   |                   |                   |            |
| 10              | QPSK       | 1           | 25              | 22.87             | 23.15             | 22.87             | 24                | 0                 |                   |            |
| 10              | QPSK       | 5           | 0               | 22.87             | 23.15             | 22.87             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 0               | 23.12             | 23.16             | 23.16             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 12              | 23.00             | 23.14             | 23.12             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 12              | 23.00             | 23.14             | 23.12             | 24                | 0                 |                   |            |
| 10              | QPSK       | 50          | 0               | 22.93             | 23.05             | 22.98             |                   |                   |                   |            |
| 10              | QPSK       | 1           | 0               | 22.80             | 22.82             | 22.82             |                   |                   |                   |            |
| 10              | QPSK       | 1           | 25              | 22.84             | 23.02             | 23.00             |                   |                   |                   |            |
| 10              | QPSK       | 5           | 0               | 22.84             | 23.04             | 22.71             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 0               | 21.46             | 21.53             | 21.44             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 12              | 21.56             | 21.40             | 21.44             | 23                | 1                 |                   |            |
| 10              | QPSK       | 25          | 12              | 21.56             | 21.40             | 21.44             |                   |                   |                   |            |
| 10              | QPSK       | 50          | 0               | 21.35             | 21.57             | 21.40             |                   |                   |                   |            |
| 10              | QPSK       | 1           | 0               | 20.07             | 19.89             | 20.00             |                   |                   |                   |            |
| 10              | QPSK       | 1           | 25              | 20.04             | 20.19             | 20.19             | 21                | 3                 |                   |            |
| 10              | QPSK       | 5           | 0               | 20.04             | 20.19             | 20.19             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 0               | 19.38             | 19.79             | 19.71             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 12              | 19.34             | 19.97             | 19.85             |                   |                   |                   |            |
| 10              | QPSK       | 25          | 12              | 19.34             | 19.97             | 19.85             | 21                | 3                 |                   |            |
| 10              | QPSK       | 50          | 0               | 19.34             | 19.79             | 19.71             |                   |                   |                   |            |
| Channel         |            |             |                 | 23755             | 23765             | 23835             |                   |                   |                   |            |
| Frequency [MHz] |            |             |                 | 706.5             | 710               | 713.5             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 0               | 22.85             | 22.88             | 22.81             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 25              | 23.14             | 23.14             | 22.83             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 24              | 22.94             | 23.13             | 22.83             |                   |                   |                   |            |
| 5               | QPSK       | 12          | 0               | 22.79             | 22.93             | 22.83             |                   |                   |                   |            |
| 5               | QPSK       | 12          | 7               | 22.79             | 23.10             | 22.84             | 24                | 0                 |                   |            |
| 5               | QPSK       | 12          | 7               | 22.79             | 23.10             | 22.84             |                   |                   |                   |            |
| 5               | QPSK       | 25          | 0               | 22.87             | 23.05             | 22.96             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 0               | 22.96             | 23.00             | 23.03             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 25              | 22.94             | 23.04             | 23.04             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 24              | 22.78             | 22.98             | 22.88             |                   |                   |                   |            |
| 5               | QPSK       | 12          | 0               | 23.12             | 23.03             | 22.86             |                   |                   |                   |            |
| 5               | QPSK       | 12          | 7               | 23.05             | 23.03             | 22.94             |                   |                   |                   |            |
| 5               | QPSK       | 25          | 0               | 22.90             | 22.90             | 22.90             |                   |                   |                   |            |
| 5               | QPSK       | 25          | 0               | 22.87             | 22.88             | 23.01             | 24                | 0                 |                   |            |
| 5               | QPSK       | 1           | 0               | 22.53             | 22.83             | 22.82             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 25              | 22.83             | 22.83             | 22.82             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 24              | 22.65             | 22.75             | 22.90             |                   |                   |                   |            |
| 5               | QPSK       | 12          | 0               | 21.19             | 21.49             | 21.26             |                   |                   |                   |            |
| 5               | QPSK       | 12          | 7               | 21.53             | 21.48             | 21.20             | 23                | 1                 |                   |            |
| 5               | QPSK       | 12          | 7               | 21.53             | 21.48             | 21.40             |                   |                   |                   |            |
| 5               | QPSK       | 25          | 0               | 21.23             | 21.33             | 21.27             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 0               | 19.81             | 19.85             | 20.08             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 25              | 19.81             | 19.85             | 19.91             |                   |                   |                   |            |
| 5               | QPSK       | 1           | 24              | 20.04             | 20.00             | 19.90             |                   |                   |                   |            |

| Band 17_Ant 1   |            |         |           |                   |                   |                   |                   |              |           |
|-----------------|------------|---------|-----------|-------------------|-------------------|-------------------|-------------------|--------------|-----------|
| RF [MHz]        | Modulation | RB Size | RF Offset | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Power Level [dBm] | Turn-on (μs) | MPER (dB) |
| Channel         |            |         |           | 23760             | 23760             | 23800             |                   |              |           |
| Frequency [MHz] |            |         |           | 709               | 710               | 711               |                   |              |           |
| 10              | QPSK       | 1       | 0         | 22.82             | 22.85             | 22.74             |                   |              |           |
| 10              | QPSK       | 1       | 25        | 22.86             | 23.00             | 22.90             | 24                | 0            |           |
| 10              | QPSK       | 1       | 50        | 22.81             | 22.90             | 22.87             |                   |              |           |
| 10              | QPSK       | 25      | 0         | 22.88             | 22.79             | 22.81             |                   |              |           |
| 10              | QPSK       | 25      | 25        | 22.94             | 22.97             | 22.88             | 24                | 0            |           |
| 10              | QPSK       | 25      | 50        | 22.79             | 22.80             | 22.77             |                   |              |           |
| 10              | QPSK       | 50      | 0         | 22.82             | 22.95             | 22.85             |                   |              |           |
| 10              | 16QAM      | 1       | 0         | 22.85             | 22.87             | 22.81             |                   |              |           |
| 10              | 16QAM      | 1       | 25        | 22.82             | 22.90             | 22.88             | 24                | 0            |           |
| 10              | 16QAM      | 1       | 50        | 22.80             | 22.76             | 22.76             |                   |              |           |
| 10              | 16QAM      | 25      | 0         | 22.83             | 22.58             | 22.74             |                   |              |           |
| 10              | 16QAM      | 25      | 25        | 22.87             | 22.75             | 22.73             | 24                | 0            |           |
| 10              | 16QAM      | 25      | 50        | 22.81             | 22.76             | 22.73             |                   |              |           |
| 10              | 16QAM      | 50      | 0         | 22.78             | 22.69             | 22.67             |                   |              |           |
| 10              | 64QAM      | 1       | 0         | 22.85             | 22.79             | 22.77             |                   |              |           |
| 10              | 64QAM      | 1       | 25        | 22.84             | 22.69             | 22.74             | 24                | 0            |           |
| 10              | 64QAM      | 1       | 50        | 22.84             | 22.64             | 22.64             |                   |              |           |
| 10              | 64QAM      | 25      | 0         | 22.73             | 22.29             | 22.07             |                   |              |           |
| 10              | 64QAM      | 25      | 25        | 22.40             | 22.44             | 22.38             | 23                | 1            |           |
| 10              | 64QAM      | 25      | 50        | 22.36             | 22.31             | 22.21             |                   |              |           |
| 10              | 64QAM      | 50      | 0         | 22.27             | 22.31             | 22.26             |                   |              |           |
| 10              | 256QAM     | 1       | 0         | 19.98             | 19.99             | 19.96             |                   |              |           |
| 10              | 256QAM     | 1       | 25        | 20.15             | 20.11             | 19.98             | 21                | 3            |           |
| 10              | 256QAM     | 1       | 50        | 19.98             | 19.98             | 19.98             |                   |              |           |
| 10              | 256QAM     | 25      | 0         | 19.30             | 19.34             | 19.37             |                   |              |           |
| 10              | 256QAM     | 25      | 25        | 19.34             | 19.35             | 19.83             | 21                | 3            |           |
| 10              | 256QAM     | 25      | 50        | 19.36             | 19.41             | 19.36             |                   |              |           |
| 10              | 256QAM     | 50      | 0         | 19.33             | 19.33             | 19.33             |                   |              |           |
| Channel         |            |         |           | 23760             | 23760             | 23800             |                   |              |           |
| Frequency [MHz] |            |         |           | 706.6             | 710               | 713.3             |                   |              |           |
| 5               | QPSK       | 1       | 0         | 22.79             | 22.79             | 22.69             |                   |              |           |
| 5               | QPSK       | 1       | 25        | 22.77             | 22.87             | 22.83             | 24                | 0            |           |
| 5               | QPSK       | 1       | 50        | 22.80             | 22.77             | 22.71             |                   |              |           |
| 5               | QPSK       | 12      | 0         | 22.83             | 22.87             | 22.73             |                   |              |           |
| 5               | QPSK       | 12      | 25        | 22.89             | 22.73             | 22.63             | 24                | 0            |           |
| 5               | QPSK       | 12      | 50        | 22.73             | 22.69             | 22.60             |                   |              |           |
| 5               | QPSK       | 25      | 0         | 22.88             | 22.70             | 22.79             |                   |              |           |
| 5               | QPSK       | 25      | 25        | 22.95             | 22.70             | 22.83             | 24                | 0            |           |
| 5               | QPSK       | 25      | 50        | 22.78             | 22.68             | 22.68             |                   |              |           |
| 5               | 16QAM      | 1       | 24        | 22.78             | 22.78             | 22.48             |                   |              |           |
| 5               | 16QAM      | 12      | 0         | 22.56             | 22.63             | 22.59             |                   |              |           |
| 5               | 16QAM      | 12      | 25        | 22.69             | 22.56             | 22.67             | 24                | 0            |           |
| 5               | 16QAM      | 12      | 50        | 22.43             | 22.79             | 22.79             |                   |              |           |
| 5               | 16QAM      | 25      | 0         | 22.34             | 22.74             | 22.63             |                   |              |           |
| 5               | 16QAM      | 25      | 25        | 22.39             | 22.76             | 22.53             | 24                | 0            |           |
| 5               | 16QAM      | 25      | 50        | 22.43             | 22.67             | 22.61             |                   |              |           |
| 5               | 16QAM      | 1       | 24        | 22.46             | 22.63             | 22.68             |                   |              |           |
| 5               | 64QAM      | 12      | 0         | 21.83             | 22.26             | 21.95             |                   |              |           |
| 5               | 64QAM      | 12      | 25        | 22.24             | 22.24             | 22.25             | 23                | 1            |           |
| 5               | 64QAM      | 12      | 50        | 22.10             | 22.10             | 22.10             |                   |              |           |
| 5               | 64QAM      | 25      | 0         | 22.21             | 22.27             | 22.05             |                   |              |           |
| 5               | 256QAM     | 1       | 0         | 19.77             | 19.74             | 19.65             |                   |              |           |
| 5               | 256QAM     | 1       | 25        | 19.80             | 19.80             | 19.80             | 21                | 3            |           |
| 5               | 256QAM     | 1       | 50        | 19.79             | 19.79             | 19.79             |                   |              |           |
| 5               | 256QAM     | 25      | 0         | 19.91             | 19.91             | 19.75             |                   |              |           |
| 5               | 256QAM     | 25      | 25        | 19.83             | 19.80             | 19.74             | 21                | 3            |           |
| 5               | 256QAM     | 25      | 50        | 19.80             | 19.80             | 19.80             |                   |              |           |
| 5               | 256QAM     | 50      | 0         | 19.81             | 19.81             | 19.91             |                   |              |           |



| Band 25_Ant 1   |            |         |           |                   |                    |                       |               |                |           |  |  |
|-----------------|------------|---------|-----------|-------------------|--------------------|-----------------------|---------------|----------------|-----------|--|--|
| RFV (MHz)       | Modulation | RF Rate | RF Offset | Power Low Ch. (W) | Power High Ch. (W) | Power High Freq. (Hz) | Turn-on (sec) | Turn-off (sec) | APRS (dB) |  |  |
| Channel         |            |         |           |                   |                    |                       |               |                |           |  |  |
| Frequency (MHz) |            |         |           | 26140             | 26140              | 26140                 |               |                |           |  |  |
| 20              | QPSK       | 1       | 0         | 21.71             | 21.86              | 21.77                 |               |                |           |  |  |
| 20              | QPSK       | 1       | 49        | 21.72             | 22.08              | 21.78                 | 23            | 0              |           |  |  |
| 20              | QPSK       | 1       | 97        | 21.73             | 22.09              | 21.84                 |               |                |           |  |  |
| 20              | QPSK       | 1       | 145       | 21.74             | 22.10              | 21.86                 |               |                |           |  |  |
| 20              | QPSK       | 50      | 24        | 21.75             | 22.04              | 21.78                 | 23            | 0              |           |  |  |
| 20              | QPSK       | 50      | 50        | 21.84             | 22.04              | 21.86                 |               |                |           |  |  |
| 20              | QPSK       | 50      | 97        | 21.85             | 22.07              | 21.91                 |               |                |           |  |  |
| 20              | QPSK       | 50      | 145       | 21.91             | 22.07              | 21.96                 |               |                |           |  |  |
| 20              | HQAM       | 1       | 0         | 21.91             | 21.87              | 21.90                 |               |                |           |  |  |
| 20              | HQAM       | 1       | 49        | 21.88             | 21.87              | 21.88                 | 23            | 0              |           |  |  |
| 20              | HQAM       | 1       | 97        | 21.92             | 21.90              | 21.92                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 0         | 21.92             | 21.90              | 21.70                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 24        | 21.98             | 21.90              | 21.87                 | 23            | 0              |           |  |  |
| 20              | HQAM       | 50      | 50        | 21.98             | 21.90              | 21.70                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 97        | 21.98             | 21.94              | 21.96                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 145       | 21.94             | 21.74              | 21.96                 |               |                |           |  |  |
| 20              | HQAM       | 1       | 0         | 21.96             | 21.92              | 21.71                 |               |                |           |  |  |
| 20              | HQAM       | 1       | 49        | 21.93             | 21.86              | 21.71                 | 23            | 0              |           |  |  |
| 20              | HQAM       | 1       | 97        | 21.94             | 21.90              | 21.72                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 0         | 21.98             | 21.93              | 21.76                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 24        | 21.93             | 21.86              | 21.77                 | 22            | 1              |           |  |  |
| 20              | HQAM       | 50      | 50        | 21.92             | 21.82              | 21.76                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 97        | 21.92             | 21.82              | 21.76                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 145       | 21.82             | 21.82              | 21.76                 |               |                |           |  |  |
| 20              | HQAM       | 1       | 0         | 17.82             | 17.75              | 17.72                 |               |                |           |  |  |
| 20              | HQAM       | 1       | 49        | 17.84             | 17.84              | 17.84                 | 18            | 5              |           |  |  |
| 20              | HQAM       | 1       | 97        | 17.83             | 17.86              | 17.88                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 0         | 17.82             | 17.87              | 17.86                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 24        | 17.89             | 17.72              | 17.88                 | 18            | 5              |           |  |  |
| 20              | HQAM       | 50      | 50        | 17.88             | 17.75              | 17.83                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 97        | 17.84             | 17.69              | 17.88                 |               |                |           |  |  |
| 20              | HQAM       | 50      | 145       | 17.84             | 17.69              | 17.88                 |               |                |           |  |  |
| Channel         |            |         |           |                   |                    |                       |               |                |           |  |  |
| Frequency (MHz) |            |         |           | 1807.5            | 1807.5             | 1807.5                |               |                |           |  |  |
| 15              | QPSK       | 1       | 0         | 21.83             | 21.88              | 21.86                 |               |                |           |  |  |
| 15              | QPSK       | 1       | 37        | 21.46             | 22.08              | 21.85                 | 23            | 0              |           |  |  |
| 15              | QPSK       | 1       | 74        | 21.42             | 21.70              | 21.72                 |               |                |           |  |  |
| 15              | QPSK       | 1       | 111       | 21.42             | 21.67              | 21.67                 |               |                |           |  |  |
| 15              | QPSK       | 38      | 20        | 21.93             | 21.88              | 21.81                 | 23            | 0              |           |  |  |
| 15              | QPSK       | 38      | 59        | 21.92             | 21.98              | 21.49                 |               |                |           |  |  |
| 15              | QPSK       | 38      | 97        | 21.91             | 21.98              | 21.49                 |               |                |           |  |  |
| 15              | HQAM       | 1       | 0         | 21.93             | 21.83              | 21.42                 |               |                |           |  |  |
| 15              | HQAM       | 1       | 37        | 21.48             | 21.99              | 21.54                 | 23            | 0              |           |  |  |
| 15              | HQAM       | 1       | 74        | 21.39             | 21.93              | 21.57                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 5         | 21.97             | 21.88              | 21.47                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 20        | 21.95             | 21.88              | 21.75                 | 23            | 0              |           |  |  |
| 15              | HQAM       | 38      | 59        | 21.97             | 21.80              | 21.63                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 97        | 21.91             | 21.82              | 21.63                 |               |                |           |  |  |
| 15              | HQAM       | 1       | 0         | 21.40             | 21.64              | 21.50                 |               |                |           |  |  |
| 15              | HQAM       | 1       | 37        | 21.25             | 21.77              | 21.45                 |               |                |           |  |  |
| 15              | HQAM       | 1       | 74        | 21.35             | 21.62              | 21.42                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 0         | 21.94             | 21.78              | 21.59                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 20        | 21.96             | 21.30              | 21.15                 | 22            | 1              |           |  |  |
| 15              | HQAM       | 38      | 59        | 21.98             | 21.26              | 21.07                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 97        | 20.92             | 21.98              | 21.92                 |               |                |           |  |  |
| 15              | HQAM       | 1       | 0         | 17.68             | 17.63              | 17.47                 |               |                |           |  |  |
| 15              | HQAM       | 1       | 37        | 17.53             | 17.52              | 17.52                 | 18            | 5              |           |  |  |
| 15              | HQAM       | 1       | 74        | 17.60             | 17.56              | 17.56                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 0         | 17.43             | 17.58              | 17.56                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 20        | 17.58             | 17.52              | 17.52                 | 18            | 5              |           |  |  |
| 15              | HQAM       | 38      | 59        | 17.58             | 17.49              | 17.48                 |               |                |           |  |  |
| 15              | HQAM       | 38      | 97        | 17.47             | 17.56              | 17.57                 |               |                |           |  |  |
| 15              | HQAM       | 75      | 0         | 17.47             | 17.56              | 17.57                 |               |                |           |  |  |
| Channel         |            |         |           |                   |                    |                       |               |                |           |  |  |
| Frequency (MHz) |            |         |           | 26050             | 26050              | 26050                 |               |                |           |  |  |
| 10              | QPSK       | 1       | 0         | 21.76             | 21.97              | 21.84                 |               |                |           |  |  |
| 10              | QPSK       | 1       | 6         | 21.79             | 21.97              | 21.82                 |               |                |           |  |  |
| 10              | QPSK       | 1       | 24        | 21.70             | 21.79              | 21.42                 |               |                |           |  |  |
| 10              | QPSK       | 12      | 0         | 21.72             | 21.76              | 21.73                 |               |                |           |  |  |
| 10              | QPSK       | 12      | 6         | 21.74             | 21.98              | 21.86                 |               |                |           |  |  |
| 10              | QPSK       | 12      | 13        | 21.99             | 21.97              | 21.63                 | 23            | 0              |           |  |  |
| 10              | QPSK       | 25      | 0         | 21.60             | 22.02              | 21.48                 |               |                |           |  |  |
| 10              | HQAM       | 1       | 0         | 21.98             | 21.93              | 21.60                 |               |                |           |  |  |
| 10              | HQAM       | 1       | 6         | 21.97             | 21.80              | 21.43                 | 23            | 0              |           |  |  |
| 10              | HQAM       | 1       | 12        | 21.98             | 21.62              | 21.78                 |               |                |           |  |  |
| 10              | HQAM       | 12      | 0         | 21.98             | 21.43              | 21.76                 |               |                |           |  |  |
| 10              | HQAM       | 12      | 6         | 21.97             | 21.68              | 21.38                 |               |                |           |  |  |
| 10              | HQAM       | 12      | 13        | 21.91             | 21.76              | 21.87                 |               |                |           |  |  |
| 10              | HQAM       | 25      | 0         | 21.27             | 21.78              | 21.38                 |               |                |           |  |  |
| 10              | HQAM       | 25      | 6         | 21.53             | 21.96              | 21.51                 |               |                |           |  |  |
| 10              | HQAM       | 1       | 12        | 21.98             | 21.81              | 21.78                 |               |                |           |  |  |
| 10              | HQAM       | 1       | 24        | 21.33             | 21.90              | 21.52                 |               |                |           |  |  |
| 10              | HQAM       | 12      | 0         | 21.75             | 21.49              | 21.26                 |               |                |           |  |  |
| 10              | HQAM       | 12      | 13        | 21.34             | 21.55              | 21.29                 | 22            | 1              |           |  |  |
| 10              | HQAM       | 25      | 0         | 20.94             | 21.24              | 21.16                 |               |                |           |  |  |
| 10              | HQAM       | 25      | 6         | 21.28             | 21.77              | 21.65                 |               |                |           |  |  |
| 10              | HQAM       | 1       | 12        | 17.41             | 17.79              | 17.61                 | 18            | 5              |           |  |  |
| 10              | HQAM       | 1       | 24        | 17.63             | 17.74              | 17.67                 |               |                |           |  |  |
| 10              | HQAM       | 12      | 0         | 17.44             | 17.64              | 17.62                 |               |                |           |  |  |
| 10              | HQAM       | 12      | 7         | 17.48             | 17.67              | 17.53                 | 18            | 5              |           |  |  |
| 10              | HQAM       | 12      | 13        | 17.48             | 17.72              | 17.56                 |               |                |           |  |  |
| 10              | HQAM       | 25      | 0         | 17.44             | 17.62              | 17.47                 |               |                |           |  |  |
| Channel         |            |         |           |                   |                    |                       |               |                |           |  |  |
| Frequency (MHz) |            |         |           | 1807.5            | 1807.5             | 1807.5                |               |                |           |  |  |
| 3               | QPSK       | 1       | 0         | 21.54             | 21.66              | 21.66                 |               |                |           |  |  |
| 3               | QPSK       | 1       | 6         | 21.46             | 22.06              | 21.63                 | 23            | 0              |           |  |  |
| 3               | QPSK       | 1       | 12        | 21.57             | 21.62              | 21.52                 |               |                |           |  |  |
| 3               | QPSK       | 6       | 0         | 21.57             | 21.44              | 21.68                 |               |                |           |  |  |
| 3               | QPSK       | 6       | 4         | 21.78             | 22.03              | 21.68                 | 23            | 0              |           |  |  |
| 3               | QPSK       | 15      | 0         | 21.38             | 22.02              | 21.77                 |               |                |           |  |  |
| 3               | HQAM       | 1       | 0         | 21.82             | 21.62              | 21.45                 |               |                |           |  |  |
| 3               | HQAM       | 1       | 6         | 21.58             | 21.95              | 21.65                 | 23            | 0              |           |  |  |
| 3               | HQAM       | 1       | 12        | 21.98             | 21.94              | 21.77                 |               |                |           |  |  |
| 3               | HQAM       | 6       | 0         | 21.43             | 21.27              | 21.75                 |               |                |           |  |  |
| 3               | HQAM       | 6       | 4         | 21.98             | 21.90              | 21.77                 |               |                |           |  |  |
| 3               | HQAM       | 15      | 0         | 21.98             | 21.90              | 21.69                 |               |                |           |  |  |
| 3               | HQAM       | 1       | 0         | 21.52             | 21.41              | 21.30                 |               |                |           |  |  |
| 3               | HQAM       | 1       | 6         | 21.58             | 21.69              | 21.77                 | 23            | 0              |           |  |  |
| 3               | HQAM       | 1       | 14        | 21.47             | 21.55              | 21.49                 |               |                |           |  |  |
| 3               | HQAM       | 6       | 0         | 21.08             | 21.19              | 21.05                 |               |                |           |  |  |
| 3               | HQAM       | 6       | 4         | 21.11             | 21.40              | 21.28                 | 22            | 1              |           |  |  |
| 3               | HQAM       | 15      | 0         | 21.11             | 21.40              | 21.28                 |               |                |           |  |  |
| 3               | HQAM       | 15      | 6         | 21.04             | 21.20              | 21.43                 |               |                |           |  |  |
| 3               | HQAM       | 1       | 0         | 17.63             | 17.76              | 17.68                 |               |                |           |  |  |
| 3               | HQAM       | 1       | 6         | 17.77             | 17.88              | 17.80                 | 18            | 5              |           |  |  |
| 3               | HQAM       | 1       | 14        | 17.60             | 17.84              | 17.81                 |               |                |           |  |  |
| 3               | HQAM       | 6       | 0         | 17.42             | 17.62              | 17.53                 |               |                |           |  |  |
| 3               | HQAM       | 6       | 4         | 17.54             | 17.64              | 17.59                 | 18            | 5              |           |  |  |
| 3               | HQAM       | 15      | 0         | 17.51             | 17.66              | 17.56                 |               |                |           |  |  |
| Channel         |            |         |           |                   |                    |                       |               |                |           |  |  |
| Frequency (MHz) |            |         |           | 26047             | 26043              | 26043                 |               |                |           |  |  |
| 14              | QPSK       | 1       | 0         | 21.56             | 21.86              | 21.61                 |               |                |           |  |  |
| 14              | QPSK       | 1       | 3         | 21.70             | 22.03              | 21.83                 |               |                |           |  |  |
| 14              | QPSK       | 1       | 5         | 21.40             | 21.46              | 21.65                 |               |                |           |  |  |
| 14              | QPSK       | 1       | 7         | 21.73             | 21.80              | 21.65                 |               |                |           |  |  |
| 14              | QPSK       | 3       | 0         | 21.75             | 22.00              | 21.85                 |               |                |           |  |  |
| 14              | QPSK       | 3       | 3         | 21.44             | 21.72              | 21.41                 |               |                |           |  |  |
| 14              | QPSK       | 3       | 6         | 21.40             | 21.60              | 21.51                 | 23            | 0              |           |  |  |
| 14              | QPSK       | 3       | 9         | 21.80             | 21.94              | 21.87                 |               |                |           |  |  |
| 14              | HQAM       | 1       | 0         | 21.49             | 21.41              | 21.61                 |               |                |           |  |  |
| 14              | HQAM       | 1       | 3         | 21.68             | 21.51              | 21.81                 | 23            | 0              |           |  |  |
| 14              | HQAM       | 1       | 6         | 21.29             | 21.47              | 21.58                 |               |                |           |  |  |
| 14              | HQAM       | 3       | 0         | 21.45             | 21.48              | 21.36                 |               |                |           |  |  |
| 14              | HQAM       | 3       | 3         | 21.80             | 21.89              | 21.87                 | 23            | 0              |           |  |  |
| 14              | HQAM       | 3       | 6         | 21.77             | 21.42              | 21.62                 |               |                |           |  |  |
| 14              | HQAM       | 1       | 0         | 21.38             | 21.34              | 21.77                 |               |                |           |  |  |
| 14              | HQAM       | 1       | 3         | 21.38             | 21.97              | 21.62                 |               |                |           |  |  |
| 14              | HQAM       | 1       | 6         | 21.48             | 21.43              | 21.40                 | 23            | 0              |           |  |  |
| 14              | HQAM       | 3       | 0         | 21.92             | 21.92              | 21.88                 |               |                |           |  |  |
| 14              | HQAM       | 3       | 3         | 21.79             | 21.62              | 21.70                 |               |                |           |  |  |
| 14              | HQAM       | 3       | 6         | 21.73             | 21.69              | 21.75                 |               |                |           |  |  |
| 14              | HQAM       | 3       | 9         | 21.77             | 21.68              | 21.74                 | 22            | 1              |           |  |  |
| 14              | HQAM       | 1       | 0         | 17.59             | 17.61              | 17.61                 |               |                |           |  |  |
| 14              | HQAM       | 1       | 3         | 17.61             | 17.71              | 17.68                 |               |                |           |  |  |
| 14              | HQAM       | 1       | 6         | 17.63             | 17.74              | 17.70                 |               |                |           |  |  |
| 14              | HQAM       | 3       | 0         | 17.41             | 17.66              | 17.58                 | 18            | 5              |           |  |  |
| 14              | HQAM       | 3       | 3         | 17.58             | 17.64              | 17.56                 |               |                |           |  |  |
| 14              | HQAM       | 3       | 6         | 17.58             | 17.64              | 17.56                 |               |                |           |  |  |
| 14              | HQAM       | 3       | 9         | 17.45             | 17.68              | 17.67                 | 18            | 5              |           |  |  |



| Band 30_Ant 1    |            |         |           |                       |                        |                    |          |                 |            |
|------------------|------------|---------|-----------|-----------------------|------------------------|--------------------|----------|-----------------|------------|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power High Ch. / Freq. | Turn-on time (dBm) | MFR (dB) | Channel         |            |
|                  |            |         |           |                       |                        |                    |          | Frequency (MHz) | Power (dB) |
| 10               | QPSK       | 1       | 0         | 23.10                 |                        |                    |          | 27710           |            |
| 10               | QPSK       | 1       | 25        | 23.18                 |                        | 24                 | 0        |                 |            |
| 10               | QPSK       | 1       | 40        | 23.06                 |                        |                    |          |                 |            |
| 10               | QPSK       | 25      | 0         | 22.92                 |                        |                    |          |                 |            |
| 10               | QPSK       | 25      | 12        | 22.95                 |                        | 24                 | 0        |                 |            |
| 10               | QPSK       | 25      | 25        | 22.92                 |                        |                    |          |                 |            |
| 10               | QPSK       | 50      | 0         | 21.75                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 1       | 0         | 23.10                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 1       | 25        | 23.06                 |                        | 24                 | 0        |                 |            |
| 10               | 16QAM      | 1       | 40        | 22.95                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 25      | 0         | 21.82                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 25      | 12        | 21.84                 |                        | 23                 | 1        |                 |            |
| 10               | 16QAM      | 1       | 25        | 21.75                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 50      | 0         | 21.78                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 1       | 0         | 22.92                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 1       | 25        | 23.11                 |                        | 24                 | 0        |                 |            |
| 10               | 84QAM      | 1       | 40        | 23.00                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 25      | 0         | 21.84                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 25      | 12        | 21.75                 |                        | 23                 | 1        |                 |            |
| 10               | 84QAM      | 25      | 25        | 21.81                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 50      | 0         | 21.88                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 1       | 0         | 18.98                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 1       | 25        | 19.30                 |                        | 20                 | 4        |                 |            |
| 10               | 256QAM     | 1       | 40        | 19.37                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 25      | 0         | 19.02                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 25      | 12        | 19.13                 |                        | 20                 | 4        |                 |            |
| 10               | 256QAM     | 25      | 25        | 19.05                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 50      | 0         | 19.11                 |                        |                    |          |                 |            |
| Channel          |            |         |           |                       |                        |                    |          |                 |            |
| 2785 27710 27735 |            |         |           |                       |                        |                    |          |                 |            |
| 5                | QPSK       | 1       | 0         | 22.95                 | 23.09                  | 22.91              |          | 27710           |            |
| 5                | QPSK       | 1       | 12        | 23.08                 | 23.13                  | 23.08              | 24       | 0               |            |
| 5                | QPSK       | 1       | 24        | 22.91                 | 23.02                  | 23.00              |          |                 |            |
| 5                | QPSK       | 10      | 0         | 22.84                 | 22.73                  | 22.60              |          |                 |            |
| 5                | QPSK       | 12      | 7         | 22.69                 | 22.81                  | 22.71              | 24       | 0               |            |
| 5                | QPSK       | 12      | 13        | 22.76                 | 22.74                  | 22.68              |          |                 |            |
| 5                | QPSK       | 25      | 0         | 22.99                 | 22.71                  | 22.61              |          |                 |            |
| 5                | 16QAM      | 1       | 0         | 23.05                 | 23.16                  | 23.13              |          |                 |            |
| 5                | 16QAM      | 1       | 12        | 23.04                 | 23.12                  | 23.06              | 24       | 0               |            |
| 5                | 16QAM      | 1       | 24        | 22.86                 | 22.91                  | 22.89              |          |                 |            |
| 5                | 16QAM      | 12      | 0         | 21.78                 | 21.83                  | 21.79              |          |                 |            |
| 5                | 16QAM      | 12      | 7         | 21.80                 | 21.83                  | 21.75              | 23       | 1               |            |
| 5                | 16QAM      | 12      | 13        | 21.64                 | 21.75                  | 21.63              |          |                 |            |
| 5                | 16QAM      | 25      | 0         | 21.73                 | 21.76                  | 21.70              |          |                 |            |
| 5                | 84QAM      | 1       | 0         | 22.61                 | 22.50                  | 22.79              |          |                 |            |
| 5                | 84QAM      | 1       | 12        | 23.01                 | 23.10                  | 23.08              | 24       | 0               |            |
| 5                | 84QAM      | 1       | 24        | 22.60                 | 22.66                  | 22.54              |          |                 |            |
| 5                | 84QAM      | 12      | 0         | 21.64                 | 21.73                  | 21.64              |          |                 |            |
| 5                | 84QAM      | 12      | 7         | 21.57                 | 21.59                  | 21.52              | 23       | 1               |            |
| 5                | 84QAM      | 12      | 13        | 21.60                 | 21.63                  | 21.63              |          |                 |            |
| 5                | 84QAM      | 25      | 0         | 21.52                 | 21.76                  | 21.69              |          |                 |            |
| 5                | 256QAM     | 1       | 0         | 18.95                 | 18.91                  | 19.05              |          |                 |            |
| 5                | 256QAM     | 1       | 12        | 19.24                 | 19.12                  | 19.24              | 20       | 4               |            |
| 5                | 256QAM     | 1       | 24        | 19.30                 | 19.26                  | 19.26              |          |                 |            |
| 5                | 256QAM     | 12      | 0         | 18.97                 | 18.98                  | 18.93              |          |                 |            |
| 5                | 256QAM     | 12      | 7         | 19.02                 | 19.02                  | 19.07              | 20       | 4               |            |
| 5                | 256QAM     | 12      | 13        | 18.98                 | 19.01                  | 18.96              |          |                 |            |
| 5                | 256QAM     | 25      | 0         | 19.04                 | 19.11                  | 19.11              |          |                 |            |

| Band 30_Ant 2    |            |         |           |                       |                        |                    |          |                 |            |
|------------------|------------|---------|-----------|-----------------------|------------------------|--------------------|----------|-----------------|------------|
| BW (MHz)         | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power High Ch. / Freq. | Turn-on time (dBm) | MFR (dB) | Channel         |            |
|                  |            |         |           |                       |                        |                    |          | Frequency (MHz) | Power (dB) |
| 10               | QPSK       | 1       | 0         | 22.18                 |                        |                    |          | 27710           |            |
| 10               | QPSK       | 1       | 25        | 22.25                 |                        | 24                 | 0        |                 |            |
| 10               | QPSK       | 1       | 40        | 22.20                 |                        |                    |          |                 |            |
| 10               | QPSK       | 25      | 0         | 22.16                 |                        |                    |          |                 |            |
| 10               | QPSK       | 25      | 12        | 22.24                 |                        | 24                 | 0        |                 |            |
| 10               | QPSK       | 25      | 25        | 22.20                 |                        |                    |          |                 |            |
| 10               | QPSK       | 50      | 0         | 22.21                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 1       | 0         | 22.20                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 1       | 25        | 22.17                 |                        | 24                 | 0        |                 |            |
| 10               | 16QAM      | 1       | 40        | 22.15                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 25      | 0         | 21.25                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 25      | 12        | 21.24                 |                        | 23                 | 1        |                 |            |
| 10               | 16QAM      | 1       | 25        | 21.24                 |                        |                    |          |                 |            |
| 10               | 16QAM      | 50      | 0         | 21.22                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 1       | 0         | 21.17                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 1       | 25        | 21.15                 |                        | 23                 | 1        |                 |            |
| 10               | 84QAM      | 1       | 40        | 21.11                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 25      | 0         | 20.13                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 25      | 12        | 20.11                 |                        | 22                 | 2        |                 |            |
| 10               | 84QAM      | 25      | 25        | 20.13                 |                        |                    |          |                 |            |
| 10               | 84QAM      | 50      | 0         | 20.09                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 1       | 0         | 18.12                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 1       | 25        | 18.07                 |                        | 20                 | 4        |                 |            |
| 10               | 256QAM     | 1       | 40        | 18.03                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 25      | 0         | 18.09                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 25      | 12        | 18.00                 |                        | 20                 | 4        |                 |            |
| 10               | 256QAM     | 25      | 25        | 18.12                 |                        |                    |          |                 |            |
| 10               | 256QAM     | 50      | 0         | 18.14                 |                        |                    |          |                 |            |
| Channel          |            |         |           |                       |                        |                    |          |                 |            |
| 2785 27710 27735 |            |         |           |                       |                        |                    |          |                 |            |
| 5                | QPSK       | 1       | 0         | 22.17                 | 22.13                  | 22.16              |          | 27710           |            |
| 5                | QPSK       | 1       | 12        | 22.24                 | 22.24                  | 22.20              | 24       | 0               |            |
| 5                | QPSK       | 1       | 24        | 22.15                 | 22.17                  | 22.13              |          |                 |            |
| 5                | QPSK       | 10      | 0         | 22.13                 | 22.06                  | 22.10              |          |                 |            |
| 5                | QPSK       | 12      | 7         | 22.19                 | 22.11                  | 22.16              | 24       | 0               |            |
| 5                | QPSK       | 12      | 13        | 22.11                 | 22.07                  | 22.07              |          |                 |            |
| 5                | QPSK       | 25      | 0         | 22.15                 | 22.09                  | 22.12              |          |                 |            |
| 5                | 16QAM      | 1       | 0         | 22.03                 | 22.07                  | 22.06              |          |                 |            |
| 5                | 16QAM      | 1       | 12        | 22.19                 | 22.20                  | 22.19              | 24       | 0               |            |
| 5                | 16QAM      | 1       | 24        | 22.02                 | 22.09                  | 22.07              |          |                 |            |
| 5                | 16QAM      | 12      | 0         | 21.01                 | 21.11                  | 21.06              |          |                 |            |
| 5                | 16QAM      | 12      | 7         | 21.19                 | 21.15                  | 21.26              | 23       | 1               |            |
| 5                | 16QAM      | 12      | 13        | 21.21                 | 21.13                  | 21.68              |          |                 |            |
| 5                | 16QAM      | 25      | 0         | 21.17                 | 21.16                  | 21.16              |          |                 |            |
| 5                | 84QAM      | 1       | 0         | 21.21                 | 21.10                  | 21.26              |          |                 |            |
| 5                | 84QAM      | 1       | 12        | 21.31                 | 21.28                  | 21.33              | 23       | 1               |            |
| 5                | 84QAM      | 1       | 24        | 21.73                 | 21.10                  | 21.74              |          |                 |            |
| 5                | 84QAM      | 12      | 0         | 20.15                 | 20.10                  | 20.16              |          |                 |            |
| 5                | 84QAM      | 12      | 7         | 20.16                 | 20.12                  | 20.21              | 22       | 2               |            |
| 5                | 84QAM      | 12      | 13        | 20.17                 | 20.10                  | 20.16              |          |                 |            |
| 5                | 84QAM      | 25      | 0         | 20.16                 | 20.06                  | 20.10              |          |                 |            |
| 5                | 256QAM     | 1       | 0         | 18.13                 | 18.09                  | 18.16              |          |                 |            |
| 5                | 256QAM     | 1       | 12        | 18.12                 | 18.08                  | 18.05              | 20       | 4               |            |
| 5                | 256QAM     | 1       | 24        | 18.06                 | 18.07                  | 18.12              |          |                 |            |
| 5                | 256QAM     | 12      | 0         | 18.17                 | 18.14                  | 18.14              |          |                 |            |
| 5                | 256QAM     | 12      | 7         | 18.07                 | 18.06                  | 18.12              | 20       | 4               |            |
| 5                | 256QAM     | 12      | 13        | 18.15                 | 18.16                  | 18.16              |          |                 |            |
| 5                | 256QAM     | 25      | 0         | 18.21                 | 18.14                  | 18.18              |          |                 |            |

| Band 66_Ant 1        |            |         |           |                       |                        |                        |                    |          |         |
|----------------------|------------|---------|-----------|-----------------------|------------------------|------------------------|--------------------|----------|---------|
| BW (MHz)             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Turn-on time (dBm) | MFR (dB) | Channel |
|                      |            |         |           |                       |                        |                        |                    |          |         |
| 133022 133222 133272 |            |         |           |                       |                        |                        |                    |          |         |
| 1726 1745 1773       |            |         |           |                       |                        |                        |                    |          |         |
| 20                   | QPSK       | 1       | 0         | 21.85                 | 21.89                  | 21.85                  |                    |          |         |
| 20                   | QPSK       | 1       | 40        | 21.88                 | 22.09                  | 21.98                  | 23                 | 0        |         |
| 20                   | QPSK       | 1       | 80        | 21.84                 | 21.84                  | 21.79                  |                    |          |         |
| 20                   | QPSK       | 50      | 0         | 21.80                 | 21.94                  | 21.86                  |                    |          |         |
| 20                   | QPSK       | 50      | 24        | 21.83                 | 22.06                  | 21.84                  | 23                 | 0        |         |
| 20                   | QPSK       | 50      | 50        | 21.85                 | 21.87                  | 21.73                  |                    |          |         |
| 20                   | QPSK       | 50      | 6         | 21.80                 | 22.04                  | 21.82                  |                    |          |         |
| 20                   | 16QAM      | 1       | 0         | 21.87                 | 21.86                  | 21.68                  |                    |          |         |
| 20                   | 16QAM      | 1       | 40        | 21.77                 | 22.05                  | 21.69                  | 23                 | 0        |         |
| 20                   | 16QAM      | 1       | 80        | 21.82                 | 21.71                  | 21.58                  |                    |          |         |
| 20                   | 16QAM      | 50      | 0         | 21.49                 | 21.82                  | 21.56                  |                    |          |         |
| 20                   | 16QAM      | 50      | 24        | 21.72                 | 22.06                  | 21.68                  | 23                 | 0        |         |
| 20                   | 16QAM      | 50      | 50        | 21.54                 | 21.70                  | 21.46                  |                    |          |         |
| 20                   | 16QAM      | 500     | 0         | 21.58                 | 21.77                  | 21.71                  |                    |          |         |
| 20                   | 84QAM      | 1       | 0         | 21.68                 | 21.95                  | 21.62                  |                    |          |         |
| 20                   | 84QAM      | 1       | 40        | 21.66                 | 21.82                  | 21.63                  | 23                 | 0        |         |
| 20                   | 84QAM      | 1       | 80        | 21.69                 | 21.85                  | 21.78                  |                    |          |         |
| 20                   | 84QAM      | 50      | 0         | 21.36                 | 21.39                  | 21.25                  |                    |          |         |
| 20                   | 84QAM      | 50      | 24        | 21.37                 | 21.58                  | 21.36                  | 22                 | 1        |         |
| 20                   | 84QAM      | 50      | 50        | 21.21                 | 21.45                  | 21.47                  |                    |          |         |
| 20                   | 256QAM     | 1       | 0         | 17.80                 | 18.08                  | 17.81                  |                    |          |         |
| 20                   | 256QAM     | 1       | 40        | 17.83                 | 18.08                  | 17.86                  | 19                 | 4        |         |
| 20                   | 256QAM     | 1       | 80        | 17.84                 | 18.01                  | 18.00                  |                    |          |         |
| 20                   | 256QAM     | 50      | 0         | 17.93                 | 17.96                  | 17.83                  |                    |          |         |
| 20                   | 256QAM     | 50      | 24        | 17.87                 | 17.97                  | 17.88                  | 19                 | 4        |         |
| 20                   | 256QAM     | 50      | 50        | 17.89                 | 17.94                  | 17.84                  |                    |          |         |
| 20                   | 256QAM     | 500     | 0         | 17.85                 | 17.92                  | 17.82                  |                    |          |         |
| Channel              |            |         |           |                       |                        |                        |                    |          |         |
| 133022 133222 133267 |            |         |           |                       |                        |                        |                    |          |         |
| 15                   | QPSK       | 1       | 0         | 21.73                 | 21.73                  | 21.73                  |                    |          |         |
| 15                   | QPSK       | 1       | 37        | 21.84                 | 21.84                  | 21.88                  | 23                 | 0        |         |
| 15                   | QPSK       | 1       | 74        | 21.87                 | 21.87                  | 21.87                  |                    |          |         |
| 15                   | QPSK       | 36      | 0         | 21.64                 | 21.66                  | 21.68                  |                    |          |         |
| 15                   | QPSK       | 36      | 20        | 21.78                 | 21.88                  | 21.82                  | 23                 | 0        |         |
| 15                   | QPSK       | 36      | 40        | 21.71                 | 21.81                  | 21.75                  |                    |          |         |
| 15                   | QPSK       | 36      | 60        | 21.42                 | 21.71                  | 21.65                  | 23                 | 0        |         |
| 15                   | QPSK       | 36      | 80        | 21.67                 | 21.67                  | 21.67                  |                    |          |         |
| 15                   | QPSK       | 36      | 100       | 21.61                 | 21.61                  | 21.61                  | 23                 | 0        |         |
| 15                   | QPSK       | 36      | 120       | 21.55                 | 21.55                  | 21.55                  |                    |          |         |
| 15                   | QPSK       | 36      | 140       | 21.49                 | 21.49                  | 21.49                  | 23                 | 0        |         |
| 15                   | QPSK       | 36      | 160       | 21.43                 | 21.43                  | 21.43                  |                    |          |         |
| 15                   | QPSK       | 36      | 180       | 21.37                 | 21.37                  | 21.37                  | 23                 | 0        |         |
| 15                   | QPSK       | 36      | 200       | 21.31                 | 21.31                  | 21.31                  |                    |          |         |
| 15                   | QPSK       | 36      | 220       | 21.25                 | 21.25                  | 21.25                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 240       | 21.19                 | 21.19                  | 21.19                  |                    |          |         |
| 15                   | QPSK       | 36      | 260       | 21.13                 | 21.13                  | 21.13                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 280       | 21.07                 | 21.07                  | 21.07                  |                    |          |         |
| 15                   | QPSK       | 36      | 300       | 21.01                 | 21.01                  | 21.01                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 320       | 20.95                 | 20.95                  | 20.95                  |                    |          |         |
| 15                   | QPSK       | 36      | 340       | 20.89                 | 20.89                  | 20.89                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 360       | 20.83                 | 20.83                  | 20.83                  |                    |          |         |
| 15                   | QPSK       | 36      | 380       | 20.77                 | 20.77                  | 20.77                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 400       | 20.71                 | 20.71                  | 20.71                  |                    |          |         |
| 15                   | QPSK       | 36      | 420       | 20.65                 | 20.65                  | 20.65                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 440       | 20.59                 | 20.59                  | 20.59                  |                    |          |         |
| 15                   | QPSK       | 36      | 460       | 20.53                 | 20.53                  | 20.53                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 480       | 20.47                 | 20.47                  | 20.47                  |                    |          |         |
| 15                   | QPSK       | 36      | 500       | 20.41                 | 20.41                  | 20.41                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 520       | 20.35                 | 20.35                  | 20.35                  |                    |          |         |
| 15                   | QPSK       | 36      | 540       | 20.29                 | 20.29                  | 20.29                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 560       | 20.23                 | 20.23                  | 20.23                  |                    |          |         |
| 15                   | QPSK       | 36      | 580       | 20.17                 | 20.17                  | 20.17                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 600       | 20.11                 | 20.11                  | 20.11                  |                    |          |         |
| 15                   | QPSK       | 36      | 620       | 20.05                 | 20.05                  | 20.05                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 640       | 19.99                 | 19.99                  | 19.99                  |                    |          |         |
| 15                   | QPSK       | 36      | 660       | 19.93                 | 19.93                  | 19.93                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 680       | 19.87                 | 19.87                  | 19.87                  |                    |          |         |
| 15                   | QPSK       | 36      | 700       | 19.81                 | 19.81                  | 19.81                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 720       | 19.75                 | 19.75                  | 19.75                  |                    |          |         |
| 15                   | QPSK       | 36      | 740       | 19.69                 | 19.69                  | 19.69                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 760       | 19.63                 | 19.63                  | 19.63                  |                    |          |         |
| 15                   | QPSK       | 36      | 780       | 19.57                 | 19.57                  | 19.57                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 800       | 19.51                 | 19.51                  | 19.51                  |                    |          |         |
| 15                   | QPSK       | 36      | 820       | 19.45                 | 19.45                  | 19.45                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 840       | 19.39                 | 19.39                  | 19.39                  |                    |          |         |
| 15                   | QPSK       | 36      | 860       | 19.33                 | 19.33                  | 19.33                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 880       | 19.27                 | 19.27                  | 19.27                  |                    |          |         |
| 15                   | QPSK       | 36      | 900       | 19.21                 | 19.21                  | 19.21                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 920       | 19.15                 | 19.15                  | 19.15                  |                    |          |         |
| 15                   | QPSK       | 36      | 940       | 19.09                 | 19.09                  | 19.09                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 960       | 19.03                 | 19.03                  | 19.03                  |                    |          |         |
| 15                   | QPSK       | 36      | 980       | 18.97                 | 18.97                  | 18.97                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1000      | 18.91                 | 18.91                  | 18.91                  |                    |          |         |
| 15                   | QPSK       | 36      | 1020      | 18.85                 | 18.85                  | 18.85                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1040      | 18.79                 | 18.79                  | 18.79                  |                    |          |         |
| 15                   | QPSK       | 36      | 1060      | 18.73                 | 18.73                  | 18.73                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1080      | 18.67                 | 18.67                  | 18.67                  |                    |          |         |
| 15                   | QPSK       | 36      | 1100      | 18.61                 | 18.61                  | 18.61                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1120      | 18.55                 | 18.55                  | 18.55                  |                    |          |         |
| 15                   | QPSK       | 36      | 1140      | 18.49                 | 18.49                  | 18.49                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1160      | 18.43                 | 18.43                  | 18.43                  |                    |          |         |
| 15                   | QPSK       | 36      | 1180      | 18.37                 | 18.37                  | 18.37                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1200      | 18.31                 | 18.31                  | 18.31                  |                    |          |         |
| 15                   | QPSK       | 36      | 1220      | 18.25                 | 18.25                  | 18.25                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1240      | 18.19                 | 18.19                  | 18.19                  |                    |          |         |
| 15                   | QPSK       | 36      | 1260      | 18.13                 | 18.13                  | 18.13                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1280      | 18.07                 | 18.07                  | 18.07                  |                    |          |         |
| 15                   | QPSK       | 36      | 1300      | 18.01                 | 18.01                  | 18.01                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1320      | 17.95                 | 17.95                  | 17.95                  |                    |          |         |
| 15                   | QPSK       | 36      | 1340      | 17.89                 | 17.89                  | 17.89                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1360      | 17.83                 | 17.83                  | 17.83                  |                    |          |         |
| 15                   | QPSK       | 36      | 1380      | 17.77                 | 17.77                  | 17.77                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1400      | 17.71                 | 17.71                  | 17.71                  |                    |          |         |
| 15                   | QPSK       | 36      | 1420      | 17.65                 | 17.65                  | 17.65                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1440      | 17.59                 | 17.59                  | 17.59                  |                    |          |         |
| 15                   | QPSK       | 36      | 1460      | 17.53                 | 17.53                  | 17.53                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1480      | 17.47                 | 17.47                  | 17.47                  |                    |          |         |
| 15                   | QPSK       | 36      | 1500      | 17.41                 | 17.41                  | 17.41                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1520      | 17.35                 | 17.35                  | 17.35                  |                    |          |         |
| 15                   | QPSK       | 36      | 1540      | 17.29                 | 17.29                  | 17.29                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1560      | 17.23                 | 17.23                  | 17.23                  |                    |          |         |
| 15                   | QPSK       | 36      | 1580      | 17.17                 | 17.17                  | 17.17                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1600      | 17.11                 | 17.11                  | 17.11                  |                    |          |         |
| 15                   | QPSK       | 36      | 1620      | 17.05                 | 17.05                  | 17.05                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1640      | 16.99                 | 16.99                  | 16.99                  |                    |          |         |
| 15                   | QPSK       | 36      | 1660      | 16.93                 | 16.93                  | 16.93                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1680      | 16.87                 | 16.87                  | 16.87                  |                    |          |         |
| 15                   | QPSK       | 36      | 1700      | 16.81                 | 16.81                  | 16.81                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1720      | 16.75                 | 16.75                  | 16.75                  |                    |          |         |
| 15                   | QPSK       | 36      | 1740      | 16.69                 | 16.69                  | 16.69                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1760      | 16.63                 | 16.63                  | 16.63                  |                    |          |         |
| 15                   | QPSK       | 36      | 1780      | 16.57                 | 16.57                  | 16.57                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1800      | 16.51                 | 16.51                  | 16.51                  |                    |          |         |
| 15                   | QPSK       | 36      | 1820      | 16.45                 | 16.45                  | 16.45                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1840      | 16.39                 | 16.39                  | 16.39                  |                    |          |         |
| 15                   | QPSK       | 36      | 1860      | 16.33                 | 16.33                  | 16.33                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1880      | 16.27                 | 16.27                  | 16.27                  |                    |          |         |
| 15                   | QPSK       | 36      | 1900      | 16.21                 | 16.21                  | 16.21                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1920      | 16.15                 | 16.15                  | 16.15                  |                    |          |         |
| 15                   | QPSK       | 36      | 1940      | 16.09                 | 16.09                  | 16.09                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 1960      | 16.03                 | 16.03                  | 16.03                  |                    |          |         |
| 15                   | QPSK       | 36      | 1980      | 15.97                 | 15.97                  | 15.97                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2000      | 15.91                 | 15.91                  | 15.91                  |                    |          |         |
| 15                   | QPSK       | 36      | 2020      | 15.85                 | 15.85                  | 15.85                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2040      | 15.79                 | 15.79                  | 15.79                  |                    |          |         |
| 15                   | QPSK       | 36      | 2060      | 15.73                 | 15.73                  | 15.73                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2080      | 15.67                 | 15.67                  | 15.67                  |                    |          |         |
| 15                   | QPSK       | 36      | 2100      | 15.61                 | 15.61                  | 15.61                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2120      | 15.55                 | 15.55                  | 15.55                  |                    |          |         |
| 15                   | QPSK       | 36      | 2140      | 15.49                 | 15.49                  | 15.49                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2160      | 15.43                 | 15.43                  | 15.43                  |                    |          |         |
| 15                   | QPSK       | 36      | 2180      | 15.37                 | 15.37                  | 15.37                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2200      | 15.31                 | 15.31                  | 15.31                  |                    |          |         |
| 15                   | QPSK       | 36      | 2220      | 15.25                 | 15.25                  | 15.25                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2240      | 15.19                 | 15.19                  | 15.19                  |                    |          |         |
| 15                   | QPSK       | 36      | 2260      | 15.13                 | 15.13                  | 15.13                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2280      | 15.07                 | 15.07                  | 15.07                  |                    |          |         |
| 15                   | QPSK       | 36      | 2300      | 15.01                 | 15.01                  | 15.01                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2320      | 14.95                 | 14.95                  | 14.95                  |                    |          |         |
| 15                   | QPSK       | 36      | 2340      | 14.89                 | 14.89                  | 14.89                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2360      | 14.83                 | 14.83                  | 14.83                  |                    |          |         |
| 15                   | QPSK       | 36      | 2380      | 14.77                 | 14.77                  | 14.77                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2400      | 14.71                 | 14.71                  | 14.71                  |                    |          |         |
| 15                   | QPSK       | 36      | 2420      | 14.65                 | 14.65                  | 14.65                  | 23                 | 1        |         |
| 15                   | QPSK       | 36      | 2440      | 14.59                 | 14.59                  | 14.59                  |                    |          |         |
| 15                   | QPSK       | 36      | 2460      | 14.53                 | 14.53                  | 14.53                  | 23                 | 1        |         |



| Band 66_Ant 2     |            |         |           |                        |                        |                        |                    |          |  |  |
|-------------------|------------|---------|-----------|------------------------|------------------------|------------------------|--------------------|----------|--|--|
| BW (MHz)          | Modulation | RF Band | RF Offset | Power Line Ch. (Freq.) | Power Line Ch. (Freq.) | Power High Ch. (Freq.) | Turn-on time (sec) | MFR (dB) |  |  |
| Channel           |            |         |           |                        |                        |                        |                    |          |  |  |
| Frequency (MHz)   |            |         |           |                        |                        |                        |                    |          |  |  |
| 15322 15322 15322 |            |         |           |                        |                        |                        |                    |          |  |  |
| 20                | QPSK       | 1       | 0         | 23.19                  | 23.11                  | 23.05                  |                    |          |  |  |
| 20                | QPSK       | 1       | 49        | 23.22                  | 23.28                  | 23.05                  | 24                 | 0        |  |  |
| 20                | QPSK       | 1       | 99        | 23.15                  | 23.20                  | 23.05                  |                    |          |  |  |
| 20                | QPSK       | 50      | 0         | 23.05                  | 23.19                  | 23.05                  |                    |          |  |  |
| 20                | QPSK       | 50      | 24        | 23.20                  | 23.23                  | 23.05                  | 24                 | 0        |  |  |
| 20                | QPSK       | 50      | 50        | 23.18                  | 23.18                  | 23.05                  |                    |          |  |  |
| 20                | QPSK       | 100     | 0         | 23.15                  | 23.20                  | 23.05                  |                    |          |  |  |
| 20                | 16QAM      | 1       | 0         | 23.21                  | 23.03                  | 23.05                  |                    |          |  |  |
| 20                | 16QAM      | 1       | 49        | 23.20                  | 23.04                  | 23.05                  | 24                 | 0        |  |  |
| 20                | 16QAM      | 1       | 99        | 23.20                  | 23.05                  | 23.05                  |                    |          |  |  |
| 20                | 16QAM      | 50      | 0         | 23.05                  | 23.08                  | 23.05                  |                    |          |  |  |
| 20                | 16QAM      | 50      | 24        | 23.21                  | 23.23                  | 23.04                  | 24                 | 0        |  |  |
| 20                | 16QAM      | 50      | 50        | 23.18                  | 23.18                  | 23.05                  |                    |          |  |  |
| 20                | 16QAM      | 100     | 0         | 23.02                  | 23.25                  | 23.05                  |                    |          |  |  |
| 20                | 8QAM       | 1       | 0         | 22.91                  | 23.08                  | 22.98                  |                    |          |  |  |
| 20                | 8QAM       | 1       | 49        | 22.96                  | 23.18                  | 23.05                  | 24                 | 0        |  |  |
| 20                | 8QAM       | 1       | 99        | 22.99                  | 23.00                  | 22.99                  |                    |          |  |  |
| 20                | 8QAM       | 50      | 0         | 21.72                  | 21.71                  | 21.46                  |                    |          |  |  |
| 20                | 8QAM       | 50      | 24        | 21.94                  | 21.95                  | 21.70                  | 23                 | 1        |  |  |
| 20                | 8QAM       | 50      | 50        | 21.97                  | 21.78                  | 21.46                  |                    |          |  |  |
| 20                | 8QAM       | 100     | 0         | 21.99                  | 21.98                  | 21.45                  |                    |          |  |  |
| 20                | 256QAM     | 1       | 0         | 18.99                  | 18.94                  | 18.90                  |                    |          |  |  |
| 20                | 256QAM     | 1       | 49        | 18.98                  | 18.96                  | 18.90                  | 20                 | 4        |  |  |
| 20                | 256QAM     | 1       | 99        | 18.98                  | 18.98                  | 18.94                  |                    |          |  |  |
| 20                | 256QAM     | 50      | 0         | 18.97                  | 18.93                  | 18.90                  |                    |          |  |  |
| 20                | 256QAM     | 50      | 24        | 18.91                  | 18.90                  | 18.97                  | 20                 | 4        |  |  |
| 20                | 256QAM     | 50      | 50        | 18.90                  | 18.90                  | 18.97                  |                    |          |  |  |
| 20                | 256QAM     | 100     | 0         | 18.91                  | 18.90                  | 18.88                  |                    |          |  |  |
| Channel           |            |         |           |                        |                        |                        |                    |          |  |  |
| Frequency (MHz)   |            |         |           |                        |                        |                        |                    |          |  |  |
| 15322 15322 15322 |            |         |           |                        |                        |                        |                    |          |  |  |
| 16                | QPSK       | 1       | 0         | 23.20                  | 23.06                  | 23.14                  |                    |          |  |  |
| 16                | QPSK       | 1       | 37        | 22.97                  | 23.11                  | 22.86                  | 24                 | 0        |  |  |
| 16                | QPSK       | 1       | 74        | 22.77                  | 22.81                  | 22.62                  |                    |          |  |  |
| 16                | QPSK       | 36      | 0         | 22.97                  | 23.14                  | 22.87                  | 24                 | 0        |  |  |
| 16                | QPSK       | 36      | 20        | 23.17                  | 23.12                  | 22.84                  | 24                 | 0        |  |  |
| 16                | QPSK       | 36      | 39        | 23.17                  | 23.03                  | 23.05                  |                    |          |  |  |
| 16                | QPSK       | 79      | 0         | 23.11                  | 23.02                  | 22.89                  |                    |          |  |  |
| 16                | 16QAM      | 1       | 0         | 23.15                  | 22.81                  | 22.75                  |                    |          |  |  |
| 16                | 16QAM      | 1       | 37        | 22.99                  | 23.08                  | 22.92                  | 24                 | 0        |  |  |
| 16                | 16QAM      | 1       | 74        | 22.40                  | 22.70                  | 22.74                  |                    |          |  |  |
| 16                | 16QAM      | 36      | 0         | 22.95                  | 23.02                  | 22.86                  |                    |          |  |  |
| 16                | 16QAM      | 36      | 20        | 23.19                  | 23.16                  | 22.87                  | 24                 | 0        |  |  |
| 16                | 16QAM      | 36      | 39        | 22.92                  | 23.24                  | 22.97                  |                    |          |  |  |
| 16                | 16QAM      | 79      | 0         | 22.94                  | 23.20                  | 22.89                  |                    |          |  |  |
| 16                | 8QAM       | 1       | 0         | 22.84                  | 23.07                  | 22.82                  |                    |          |  |  |
| 16                | 8QAM       | 1       | 37        | 22.77                  | 23.08                  | 22.87                  | 24                 | 0        |  |  |
| 16                | 8QAM       | 1       | 74        | 22.18                  | 22.83                  | 22.83                  |                    |          |  |  |
| 16                | 8QAM       | 36      | 0         | 21.92                  | 21.92                  | 21.91                  |                    |          |  |  |
| 16                | 8QAM       | 36      | 20        | 21.92                  | 21.98                  | 21.47                  | 23                 | 1        |  |  |
| 16                | 8QAM       | 36      | 39        | 21.96                  | 21.85                  | 21.98                  |                    |          |  |  |
| 16                | 8QAM       | 79      | 0         | 21.84                  | 21.96                  | 21.85                  |                    |          |  |  |
| 16                | 256QAM     | 1       | 0         | 18.98                  | 18.96                  | 18.94                  |                    |          |  |  |
| 16                | 256QAM     | 1       | 37        | 18.93                  | 18.99                  | 18.97                  | 20                 | 4        |  |  |
| 16                | 256QAM     | 1       | 74        | 18.95                  | 18.92                  | 18.91                  |                    |          |  |  |
| 16                | 256QAM     | 36      | 0         | 18.96                  | 18.94                  | 18.91                  |                    |          |  |  |
| 16                | 256QAM     | 36      | 20        | 18.94                  | 18.98                  | 18.97                  | 20                 | 4        |  |  |
| 16                | 256QAM     | 36      | 39        | 18.98                  | 18.98                  | 18.94                  |                    |          |  |  |
| 16                | 256QAM     | 79      | 0         | 18.90                  | 18.98                  | 18.94                  |                    |          |  |  |
| Channel           |            |         |           |                        |                        |                        |                    |          |  |  |
| Frequency (MHz)   |            |         |           |                        |                        |                        |                    |          |  |  |
| 15322 15322 15322 |            |         |           |                        |                        |                        |                    |          |  |  |
| 10                | QPSK       | 1       | 0         | 23.18                  | 23.01                  | 23.05                  |                    |          |  |  |
| 10                | QPSK       | 1       | 25        | 23.11                  | 23.08                  | 22.85                  | 24                 | 0        |  |  |
| 10                | QPSK       | 1       | 49        | 22.77                  | 23.05                  | 22.90                  |                    |          |  |  |
| 10                | QPSK       | 25      | 1         | 22.92                  | 23.03                  | 22.90                  |                    |          |  |  |
| 10                | QPSK       | 25      | 1         | 23.02                  | 23.08                  | 22.98                  |                    |          |  |  |
| 10                | QPSK       | 25      | 25        | 22.97                  | 23.03                  | 22.98                  |                    |          |  |  |
| 10                | QPSK       | 50      | 0         | 23.15                  | 23.18                  | 22.79                  |                    |          |  |  |
| 10                | 16QAM      | 1       | 0         | 23.25                  | 23.01                  | 22.95                  |                    |          |  |  |
| 10                | 16QAM      | 1       | 25        | 23.12                  | 23.01                  | 23.03                  | 24                 | 0        |  |  |
| 10                | 16QAM      | 1       | 49        | 22.93                  | 22.85                  | 22.79                  |                    |          |  |  |
| 10                | 16QAM      | 25      | 0         | 23.13                  | 23.05                  | 22.98                  |                    |          |  |  |
| 10                | 16QAM      | 25      | 12        | 23.03                  | 23.12                  | 22.98                  | 24                 | 0        |  |  |
| 10                | 16QAM      | 25      | 25        | 22.81                  | 23.07                  | 22.89                  |                    |          |  |  |
| 10                | 16QAM      | 50      | 0         | 22.84                  | 23.05                  | 23.02                  |                    |          |  |  |
| 10                | 8QAM       | 1       | 0         | 22.71                  | 23.00                  | 22.98                  |                    |          |  |  |
| 10                | 8QAM       | 1       | 25        | 22.98                  | 23.06                  | 23.08                  | 24                 | 0        |  |  |
| 10                | 8QAM       | 1       | 49        | 22.44                  | 22.87                  | 22.74                  |                    |          |  |  |
| 10                | 8QAM       | 25      | 0         | 21.95                  | 21.85                  | 21.25                  |                    |          |  |  |
| 10                | 8QAM       | 25      | 12        | 21.89                  | 21.77                  | 21.70                  | 23                 | 1        |  |  |
| 10                | 8QAM       | 25      | 25        | 21.72                  | 21.81                  | 21.52                  |                    |          |  |  |
| 10                | 8QAM       | 50      | 0         | 21.91                  | 21.85                  | 21.46                  |                    |          |  |  |
| 10                | 256QAM     | 1       | 0         | 18.90                  | 18.95                  | 18.93                  |                    |          |  |  |
| 10                | 256QAM     | 1       | 25        | 18.79                  | 18.96                  | 18.90                  | 20                 | 4        |  |  |
| 10                | 256QAM     | 1       | 49        | 18.96                  | 18.97                  | 18.90                  |                    |          |  |  |
| 10                | 256QAM     | 25      | 0         | 18.97                  | 18.98                  | 18.93                  |                    |          |  |  |
| 10                | 256QAM     | 25      | 12        | 18.98                  | 18.96                  | 18.96                  | 20                 | 4        |  |  |
| 10                | 256QAM     | 25      | 25        | 18.99                  | 18.94                  | 18.95                  |                    |          |  |  |
| 10                | 256QAM     | 50      | 0         | 18.99                  | 18.98                  | 18.90                  |                    |          |  |  |
| Channel           |            |         |           |                        |                        |                        |                    |          |  |  |
| Frequency (MHz)   |            |         |           |                        |                        |                        |                    |          |  |  |
| 15357 15352 15357 |            |         |           |                        |                        |                        |                    |          |  |  |
| 5                 | QPSK       | 1       | 0         | 22.99                  | 23.18                  | 22.94                  | 24                 | 0        |  |  |
| 5                 | QPSK       | 1       | 12        | 23.13                  | 23.06                  | 22.95                  |                    |          |  |  |
| 5                 | QPSK       | 1       | 24        | 23.24                  | 23.00                  | 22.83                  |                    |          |  |  |
| 5                 | QPSK       | 12      | 0         | 23.06                  | 23.01                  | 22.80                  |                    |          |  |  |
| 5                 | QPSK       | 12      | 7         | 23.25                  | 23.12                  | 23.04                  | 24                 | 0        |  |  |
| 5                 | QPSK       | 12      | 13        | 23.13                  | 23.02                  | 22.78                  |                    |          |  |  |
| 5                 | QPSK       | 25      | 0         | 22.95                  | 23.11                  | 22.72                  |                    |          |  |  |
| 5                 | 16QAM      | 1       | 0         | 23.25                  | 23.02                  | 22.79                  |                    |          |  |  |
| 5                 | 16QAM      | 1       | 12        | 22.97                  | 23.79                  | 22.91                  | 24                 | 0        |  |  |
| 5                 | 16QAM      | 1       | 24        | 22.88                  | 22.80                  | 22.84                  |                    |          |  |  |
| 5                 | 16QAM      | 12      | 0         | 22.84                  | 23.04                  | 22.86                  |                    |          |  |  |
| 5                 | 16QAM      | 12      | 7         | 23.20                  | 23.04                  | 22.84                  | 24                 | 0        |  |  |
| 5                 | 16QAM      | 12      | 13        | 23.01                  | 23.11                  | 22.91                  |                    |          |  |  |
| 5                 | 16QAM      | 25      | 0         | 22.70                  | 23.24                  | 23.08                  |                    |          |  |  |
| 5                 | 8QAM       | 1       | 0         | 22.92                  | 23.78                  | 23.13                  | 24                 | 0        |  |  |
| 5                 | 8QAM       | 1       | 12        | 22.91                  | 23.13                  | 22.91                  |                    |          |  |  |
| 5                 | 8QAM       | 1       | 24        | 22.94                  | 23.02                  | 22.98                  |                    |          |  |  |
| 5                 | 8QAM       | 12      | 0         | 21.92                  | 21.43                  | 21.43                  |                    |          |  |  |
| 5                 | 8QAM       | 12      | 7         | 21.88                  | 21.77                  | 21.70                  | 23                 | 1        |  |  |
| 5                 | 8QAM       | 12      | 13        | 21.82                  | 21.66                  | 21.40                  |                    |          |  |  |
| 5                 | 8QAM       | 25      | 0         | 21.97                  | 21.79                  | 21.55                  |                    |          |  |  |
| 5                 | 256QAM     | 1       | 0         | 18.99                  | 18.93                  | 18.91                  |                    |          |  |  |
| 5                 | 256QAM     | 1       | 12        | 18.99                  | 18.93                  | 18.90                  | 20                 | 4        |  |  |
| 5                 | 256QAM     | 1       | 24        | 18.97                  | 18.97                  | 18.96                  |                    |          |  |  |
| 5                 | 256QAM     | 12      | 0         | 18.99                  | 18.93                  | 18.90                  |                    |          |  |  |
| 5                 | 256QAM     | 12      | 7         | 18.90                  | 18.93                  | 18.79                  | 20                 | 4        |  |  |
| 5                 | 256QAM     | 12      | 13        | 18.96                  | 18.91                  | 18.90                  |                    |          |  |  |
| 5                 | 256QAM     | 25      | 0         | 18.97                  | 18.94                  | 18.90                  |                    |          |  |  |
| Channel           |            |         |           |                        |                        |                        |                    |          |  |  |
| Frequency (MHz)   |            |         |           |                        |                        |                        |                    |          |  |  |
| 15357 15352 15357 |            |         |           |                        |                        |                        |                    |          |  |  |
| 3                 | QPSK       | 1       | 0         | 23.15                  | 23.18                  | 22.75                  |                    |          |  |  |
| 3                 | QPSK       | 1       | 6         | 23.14                  | 23.08                  | 22.98                  | 24                 | 0        |  |  |
| 3                 | QPSK       | 1       | 12        | 22.98                  | 23.06                  | 22.91                  |                    |          |  |  |
| 3                 | QPSK       | 6       | 0         | 23.01                  | 23.19                  | 22.98                  |                    |          |  |  |
| 3                 | QPSK       | 6       | 4         | 23.26                  | 23.23                  | 22.98                  | 24                 | 0        |  |  |
| 3                 | QPSK       | 6       | 12        | 23.06                  | 23.06                  | 22.86                  |                    |          |  |  |
| 3                 | QPSK       | 15      | 0         | 23.03                  | 23.04                  | 22.95                  |                    |          |  |  |
| 3                 | 16QAM      | 1       | 0         | 23.21                  | 23.70                  | 22.86                  |                    |          |  |  |
| 3                 | 16QAM      | 1       | 6         | 23.18                  | 23.18                  | 22.91                  | 24                 | 0        |  |  |
| 3                 | 16QAM      | 1       | 12        | 22.99                  | 23.06                  | 22.91                  |                    |          |  |  |
| 3                 | 16QAM      | 6       | 0         | 22.88                  | 22.78                  | 22.93                  |                    |          |  |  |
| 3                 | 16QAM      | 6       | 4         | 23.26                  | 23.23                  | 22.91                  | 24                 | 0        |  |  |
| 3                 | 16QAM      | 6       | 12        | 23.06                  | 23.06                  | 22.86                  |                    |          |  |  |
| 3                 | 16QAM      | 15      | 0         | 22.97                  | 23.09                  | 22.93                  |                    |          |  |  |
| 3                 | 8QAM       | 1       | 0         | 22.89                  | 23.87                  | 22.82                  |                    |          |  |  |
| 3                 | 8QAM       | 1       | 6         | 23.18                  | 23.18                  | 22.91                  | 24                 | 0        |  |  |
| 3                 | 8QAM       | 1       | 12        | 22.96                  | 23.04                  | 22.91                  |                    |          |  |  |
| 3                 | 8QAM       | 6       | 0         | 22.95                  | 22.84                  | 22.98                  |                    |          |  |  |
| 3                 | 8QAM       | 6       | 4         | 23.13                  | 23.11                  | 23.01                  |                    |          |  |  |
| 3                 | 8QAM       | 6       | 12        | 23.02                  | 23.01                  | 22.84                  | 23                 | 1        |  |  |
| 3                 | 8QAM       | 15      | 0         | 21.95                  | 21.89                  | 21.46                  |                    |          |  |  |
| 3                 | 256QAM     | 1       | 0         | 18.95                  | 19.00                  | 18.96                  |                    |          |  |  |
| 3                 | 256QAM     | 1       | 6         | 18.96                  | 18.93                  | 18.91                  |                    |          |  |  |
| 3                 | 256QAM     | 1       | 12        | 18.96                  | 18.93                  | 18.91                  |                    |          |  |  |
| 3                 | 256QAM     | 6       | 0         | 18.93                  | 18.97                  | 18.94                  | 20                 | 4        |  |  |
| 3                 | 256QAM     | 6       | 4         | 18.94                  | 18.94                  | 18.94                  |                    |          |  |  |
| 3                 | 256QAM     | 6       | 7         | 18.78                  | 19.03                  | 18.90                  |                    |          |  |  |
| 3                 | 256QAM     | 15      | 0         | 18.94                  | 18.99                  | 18.94                  |                    |          |  |  |
| Channel           |            |         |           |                        |                        |                        |                    |          |  |  |
| Frequency (MHz)   |            |         |           |                        |                        |                        |                    |          |  |  |
| 15379 15322 15322 |            |         |           |                        |                        |                        |                    |          |  |  |
| 1.4               | QPSK       | 1       | 0         | 22.99                  | 23.19                  | 22.98                  |                    |          |  |  |
| 1.4               | QPSK       | 1       | 3         | 23.26                  | 23.12                  | 23.05                  | 24                 | 0        |  |  |
| 1.4               | QPSK       | 1       | 6         | 22.80                  | 23.03                  | 22.98                  |                    |          |  |  |
| 1.4               | QPSK       | 3       | 0         | 23.04                  | 23.22                  | 23.04                  |                    |          |  |  |
| 1.4               | QPSK       | 3       | 3         | 22.94                  | 22.97                  | 22.85                  |                    |          |  |  |
| 1.4               | QPSK       | 6       | 0         | 23.04                  | 23.17                  | 22.71                  | 26                 | 0        |  |  |
| 1.4               | 16QAM      | 1       | 0         | 23.00                  | 23.01                  | 22.80                  |                    |          |  |  |
| 1.4               | 16QAM      | 1       | 3         | 22.96                  | 22.97                  | 22.96                  |                    |          |  |  |
| 1.4               | 16QAM      | 1       | 6         | 22.98                  | 23.01                  | 22.71                  | 24                 | 0        |  |  |
| 1.4               | 16QAM      | 3       |           |                        |                        |                        |                    |          |  |  |

| Band 38_Ant 1   |            |         |           |                       |                        |                        |                     |           |  |           |
|-----------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|-----------|--|-----------|
| Ant. (MHz)      | Modulation | RF Rate | RF Offset | Phase Low Ch. (Freq.) | Phase High Ch. (Freq.) | Power High Ch. (Freq.) | Turn-up time (secs) | APRS (dB) |  |           |
| Channel         |            |         |           |                       |                        |                        |                     |           |  | APRS (dB) |
| Frequency (MHz) |            |         |           |                       |                        |                        |                     |           |  | APRS (dB) |
| 20              | QPSK       | 1       | 0         | 21.57                 | 21.69                  | 21.39                  |                     |           |  |           |
| 20              | QPSK       | 1       | 49        | 21.70                 | 21.75                  | 21.52                  | 23                  | 0         |  |           |
| 20              | QPSK       | 50      | 80        | 21.91                 | 21.98                  | 21.49                  |                     |           |  |           |
| 20              | QPSK       | 50      | 0         | 21.97                 | 21.98                  | 21.98                  |                     |           |  |           |
| 20              | QPSK       | 50      | 24        | 21.97                 | 21.72                  | 21.55                  | 23                  | 0         |  |           |
| 20              | QPSK       | 50      | 50        | 21.93                 | 21.9                   | 21.43                  |                     |           |  |           |
| 20              | QPSK       | 50      | 0         | 21.98                 | 21.70                  | 21.53                  |                     |           |  |           |
| 20              | HQAM       | 1       | 0         | 21.51                 | 21.50                  | 21.44                  |                     |           |  |           |
| 20              | HQAM       | 1       | 49        | 21.64                 | 21.70                  | 21.53                  | 23                  | 0         |  |           |
| 20              | HQAM       | 50      | 80        | 21.93                 | 21.93                  | 21.53                  |                     |           |  |           |
| 20              | HQAM       | 50      | 0         | 21.55                 | 21.53                  | 21.39                  |                     |           |  |           |
| 20              | HQAM       | 50      | 24        | 21.41                 | 21.56                  | 21.52                  | 23                  | 0         |  |           |
| 20              | HQAM       | 50      | 50        | 21.40                 | 21.65                  | 21.54                  |                     |           |  |           |
| 20              | HQAM       | 100     | 0         | 21.33                 | 21.42                  | 21.58                  |                     |           |  |           |
| 20              | HQAM       | 1       | 0         | 21.43                 | 21.27                  | 21.20                  |                     |           |  |           |
| 20              | HQAM       | 1       | 49        | 21.44                 | 21.7                   | 21.45                  | 23                  | 0         |  |           |
| 20              | HQAM       | 1       | 80        | 21.93                 | 21.92                  | 21.80                  |                     |           |  |           |
| 20              | HQAM       | 50      | 0         | 20.30                 | 20.31                  | 20.44                  |                     |           |  |           |
| 20              | HQAM       | 50      | 24        | 20.55                 | 20.45                  | 20.60                  |                     |           |  |           |
| 20              | HQAM       | 100     | 0         | 20.30                 | 20.44                  | 20.51                  | 22                  | 1         |  |           |
| 20              | HQAM       | 100     | 0         | 20.30                 | 20.65                  | 20.44                  |                     |           |  |           |
| 20              | ZS3GAM     | 1       | 0         | 18.18                 | 18.05                  | 18.07                  |                     |           |  |           |
| 20              | ZS3GAM     | 1       | 49        | 17.93                 | 17.97                  | 17.92                  | 19                  | 4         |  |           |
| 20              | ZS3GAM     | 1       | 80        | 17.93                 | 18.01                  | 17.90                  |                     |           |  |           |
| 20              | ZS3GAM     | 50      | 0         | 18.05                 | 18.09                  | 18.07                  |                     |           |  |           |
| 20              | ZS3GAM     | 50      | 24        | 17.94                 | 18.07                  | 18.00                  | 19                  | 4         |  |           |
| 20              | ZS3GAM     | 50      | 50        | 17.97                 | 17.97                  | 17.92                  |                     |           |  |           |
| 20              | ZS3GAM     | 100     | 0         | 17.97                 | 18.01                  | 17.88                  |                     |           |  |           |
| Channel         |            |         |           |                       |                        |                        |                     |           |  | APRS (dB) |
| Frequency (MHz) |            |         |           |                       |                        |                        |                     |           |  | APRS (dB) |
| 15              | QPSK       | 1       | 0         | 21.97                 | 21.97                  | 21.47                  |                     |           |  |           |
| 15              | QPSK       | 1       | 37        | 21.69                 | 21.68                  | 21.54                  | 23                  | 0         |  |           |
| 15              | QPSK       | 1       | 74        | 21.50                 | 21.62                  | 21.38                  |                     |           |  |           |
| 15              | QPSK       | 1       | 80        | 21.93                 | 21.92                  | 21.80                  |                     |           |  |           |
| 15              | QPSK       | 38      | 20        | 21.65                 | 21.68                  | 21.34                  | 23                  | 0         |  |           |
| 15              | QPSK       | 38      | 39        | 21.49                 | 21.52                  | 21.44                  |                     |           |  |           |
| 15              | QPSK       | 38      | 50        | 21.40                 | 21.52                  | 21.50                  |                     |           |  |           |
| 15              | HQAM       | 1       | 0         | 21.14                 | 21.29                  | 21.28                  |                     |           |  |           |
| 15              | HQAM       | 1       | 37        | 21.43                 | 21.51                  | 21.38                  | 23                  | 0         |  |           |
| 15              | HQAM       | 1       | 74        | 21.13                 | 21.37                  | 21.49                  |                     |           |  |           |
| 15              | HQAM       | 38      | 0         | 21.36                 | 21.46                  | 21.22                  |                     |           |  |           |
| 15              | HQAM       | 38      | 20        | 21.23                 | 21.43                  | 21.35                  | 23                  | 0         |  |           |
| 15              | HQAM       | 38      | 39        | 21.13                 | 21.41                  | 21.57                  |                     |           |  |           |
| 15              | HQAM       | 38      | 50        | 21.20                 | 21.33                  | 21.50                  |                     |           |  |           |
| 15              | HQAM       | 1       | 0         | 21.18                 | 21.21                  | 21.58                  |                     |           |  |           |
| 15              | HQAM       | 1       | 37        | 21.51                 | 21.52                  | 21.51                  | 23                  | 0         |  |           |
| 15              | HQAM       | 1       | 74        | 21.09                 | 21.23                  | 21.40                  |                     |           |  |           |
| 15              | HQAM       | 38      | 0         | 20.27                 | 20.13                  | 20.25                  |                     |           |  |           |
| 15              | HQAM       | 38      | 20        | 20.40                 | 20.30                  | 20.39                  | 22                  | 1         |  |           |
| 15              | HQAM       | 38      | 50        | 20.34                 | 20.16                  | 20.54                  |                     |           |  |           |
| 15              | HQAM       | 50      | 0         | 20.37                 | 20.60                  | 20.35                  |                     |           |  |           |
| 15              | ZS3GAM     | 1       | 0         | 18.05                 | 18.08                  | 17.85                  |                     |           |  |           |
| 15              | ZS3GAM     | 1       | 37        | 17.91                 | 18.01                  | 17.92                  | 19                  | 4         |  |           |
| 15              | ZS3GAM     | 1       | 74        | 17.90                 | 17.94                  | 17.84                  |                     |           |  |           |
| 15              | ZS3GAM     | 38      | 0         | 17.85                 | 18.08                  | 17.90                  |                     |           |  |           |
| 15              | ZS3GAM     | 38      | 20        | 17.92                 | 17.96                  | 17.93                  | 19                  | 4         |  |           |
| 15              | ZS3GAM     | 38      | 39        | 17.90                 | 17.90                  | 17.85                  |                     |           |  |           |
| 15              | ZS3GAM     | 38      | 50        | 17.88                 | 17.94                  | 17.81                  |                     |           |  |           |
| Channel         |            |         |           |                       |                        |                        |                     |           |  | APRS (dB) |
| Frequency (MHz) |            |         |           |                       |                        |                        |                     |           |  | APRS (dB) |
| 5               | QPSK       | 1       | 0         | 21.97                 | 21.97                  | 21.11                  |                     |           |  |           |
| 5               | QPSK       | 1       | 0         | 21.47                 | 21.41                  | 21.41                  |                     |           |  |           |
| 5               | QPSK       | 1       | 26        | 21.72                 | 21.72                  | 21.55                  | 23                  | 0         |  |           |
| 5               | QPSK       | 1       | 40        | 21.39                 | 21.46                  | 21.30                  |                     |           |  |           |
| 5               | QPSK       | 25      | 0         | 21.40                 | 21.38                  | 21.40                  |                     |           |  |           |
| 5               | QPSK       | 25      | 12        | 21.44                 | 21.46                  | 21.41                  | 23                  | 0         |  |           |
| 5               | QPSK       | 25      | 26        | 21.68                 | 21.44                  | 21.36                  |                     |           |  |           |
| 5               | QPSK       | 50      | 0         | 21.32                 | 21.63                  | 21.53                  |                     |           |  |           |
| 5               | HQAM       | 1       | 0         | 21.12                 | 21.42                  | 21.18                  |                     |           |  |           |
| 5               | HQAM       | 1       | 26        | 21.60                 | 21.73                  | 21.37                  | 23                  | 0         |  |           |
| 5               | HQAM       | 1       | 40        | 21.12                 | 21.44                  | 21.58                  |                     |           |  |           |
| 5               | HQAM       | 1       | 0         | 21.54                 | 21.54                  | 21.48                  |                     |           |  |           |
| 5               | HQAM       | 25      | 12        | 21.29                 | 21.50                  | 21.53                  | 23                  | 0         |  |           |
| 5               | HQAM       | 25      | 26        | 21.21                 | 21.38                  | 21.40                  |                     |           |  |           |
| 5               | HQAM       | 50      | 0         | 21.10                 | 21.42                  | 21.57                  |                     |           |  |           |
| 5               | HQAM       | 50      | 0         | 21.28                 | 21.64                  | 21.28                  | 23                  | 0         |  |           |
| 5               | HQAM       | 1       | 26        | 21.38                 | 21.58                  | 21.43                  | 23                  | 0         |  |           |
| 5               | HQAM       | 1       | 40        | 21.55                 | 21.46                  | 21.46                  |                     |           |  |           |
| 5               | HQAM       | 25      | 0         | 20.14                 | 20.10                  | 20.17                  |                     |           |  |           |
| 5               | HQAM       | 25      | 12        | 20.32                 | 20.23                  | 20.48                  | 22                  | 1         |  |           |
| 5               | HQAM       | 25      | 26        | 20.42                 | 20.46                  | 20.31                  |                     |           |  |           |
| 5               | HQAM       | 50      | 0         | 20.42                 | 20.63                  | 20.36                  |                     |           |  |           |
| 5               | ZS3GAM     | 1       | 0         | 18.09                 | 17.75                  | 17.81                  |                     |           |  |           |
| 5               | ZS3GAM     | 1       | 26        | 17.91                 | 18.03                  | 17.88                  | 19                  | 4         |  |           |
| 5               | ZS3GAM     | 1       | 40        | 17.84                 | 17.92                  | 17.79                  |                     |           |  |           |
| 5               | ZS3GAM     | 25      | 0         | 18.03                 | 18.07                  | 18.06                  |                     |           |  |           |
| 5               | ZS3GAM     | 25      | 12        | 17.91                 | 18.04                  | 17.85                  | 19                  | 4         |  |           |
| 5               | ZS3GAM     | 25      | 26        | 17.74                 | 17.86                  | 17.85                  |                     |           |  |           |
| 5               | ZS3GAM     | 50      | 0         | 17.92                 | 17.88                  | 17.86                  |                     |           |  |           |
| Channel         |            |         |           |                       |                        |                        |                     |           |  | APRS (dB) |
| Frequency (MHz) |            |         |           |                       |                        |                        |                     |           |  | APRS (dB) |
| 5               | QPSK       | 1       | 0         | 21.51                 | 21.26                  | 21.44                  |                     |           |  |           |
| 5               | QPSK       | 1       | 10        | 21.67                 | 21.52                  | 21.44                  | 23                  | 0         |  |           |
| 5               | QPSK       | 1       | 24        | 21.70                 | 21.43                  | 21.47                  |                     |           |  |           |
| 5               | QPSK       | 12      | 0         | 21.51                 | 21.36                  | 21.44                  |                     |           |  |           |
| 5               | QPSK       | 12      | 7         | 21.42                 | 21.69                  | 21.42                  |                     |           |  |           |
| 5               | QPSK       | 12      | 13        | 21.60                 | 21.71                  | 21.51                  | 23                  | 0         |  |           |
| 5               | QPSK       | 25      | 0         | 21.42                 | 21.69                  | 21.24                  |                     |           |  |           |
| 5               | HQAM       | 1       | 0         | 21.20                 | 21.30                  | 21.44                  |                     |           |  |           |
| 5               | HQAM       | 1       | 10        | 21.67                 | 21.62                  | 21.37                  | 23                  | 0         |  |           |
| 5               | HQAM       | 1       | 24        | 21.44                 | 21.49                  | 21.41                  |                     |           |  |           |
| 5               | HQAM       | 12      | 0         | 21.30                 | 21.41                  | 21.37                  |                     |           |  |           |
| 5               | HQAM       | 12      | 7         | 21.20                 | 21.40                  | 21.51                  | 23                  | 0         |  |           |
| 5               | HQAM       | 12      | 13        | 21.13                 | 21.05                  | 21.58                  |                     |           |  |           |
| 5               | HQAM       | 25      | 0         | 21.18                 | 21.43                  | 21.44                  |                     |           |  |           |
| 5               | HQAM       | 25      | 0         | 21.22                 | 21.07                  | 21.03                  | 23                  | 0         |  |           |
| 5               | HQAM       | 1       | 12        | 21.17                 | 21.67                  | 21.31                  |                     |           |  |           |
| 5               | HQAM       | 1       | 24        | 21.67                 | 21.40                  | 21.60                  |                     |           |  |           |
| 5               | HQAM       | 12      | 0         | 20.28                 | 20.28                  | 20.39                  |                     |           |  |           |
| 5               | HQAM       | 12      | 7         | 20.34                 | 20.30                  | 20.32                  |                     |           |  |           |
| 5               | HQAM       | 12      | 13        | 20.41                 | 20.36                  | 20.23                  | 22                  | 1         |  |           |
| 5               | HQAM       | 25      | 0         | 20.30                 | 20.34                  | 20.24                  |                     |           |  |           |
| 5               | HQAM       | 1       | 0         | 18.00                 | 18.02                  | 18.04                  |                     |           |  |           |
| 5               | ZS3GAM     | 1       | 12        | 18.05                 | 18.03                  | 17.87                  | 19                  | 4         |  |           |
| 5               | ZS3GAM     | 1       | 24        | 17.91                 | 17.96                  | 17.88                  |                     |           |  |           |
| 5               | ZS3GAM     | 12      | 0         | 17.90                 | 17.86                  | 17.90                  |                     |           |  |           |
| 5               | ZS3GAM     | 12      | 7         | 17.85                 | 18.03                  | 17.84                  | 19                  | 4         |  |           |
| 5               | ZS3GAM     | 12      | 13        | 17.79                 | 17.91                  | 17.87                  |                     |           |  |           |
| 5               | ZS3GAM     | 25      | 0         | 17.94                 | 18.00                  | 17.75                  |                     |           |  |           |

| Band 38_Ant 2   |            |         |           |                       |                        |                        |                     |           |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|-----------|--|--|
| Ant. (MHz)      | Modulation | RF Rate | RF Offset | Power Low Ch. (Freq.) | Power High Ch. (Freq.) | Power High Ch. (Freq.) | Turn-up time (secs) | APRS (dB) |  |  |
| Channel         |            |         |           |                       |                        |                        |                     |           |  |  |
| Frequency (MHz) |            |         |           |                       |                        |                        |                     |           |  |  |
| 20              | QPSK       | 1       | 0         | 22.71                 | 22.61                  | 22.58                  |                     |           |  |  |
| 20              | QPSK       | 1       | 49        | 22.65                 | 22.57                  | 22.57                  | 24                  | 0         |  |  |
| 20              | QPSK       | 50      | 80        | 22.68                 | 22.88                  | 22.82                  |                     |           |  |  |
| 20              | QPSK       | 50      | 0         | 22.58                 | 22.82                  | 22.52                  |                     |           |  |  |
| 20              | QPSK       | 50      | 24        | 22.52                 | 22.05                  | 22.04                  | 24                  | 0         |  |  |
| 20              | QPSK       | 50      | 50        | 22.78                 | 22.80                  | 22.83                  |                     |           |  |  |
| 20              | QPSK       | 100     | 0         | 22.80                 | 22.80                  | 22.81                  |                     |           |  |  |
| 20              | HQAM       | 1       | 0         | 22.78                 | 22.85                  | 22.34                  |                     |           |  |  |
| 20              | HQAM       | 1       | 49        | 22.79                 | 22.78                  | 22.59                  | 24                  | 0         |  |  |
| 20              | HQAM       | 50      | 80        | 22.70                 | 22.82                  | 22.30                  |                     |           |  |  |
| 20              | HQAM       | 50      | 0         | 22.33                 | 22.78                  | 22.24                  |                     |           |  |  |
| 20              | HQAM       | 50      | 24        | 22.85                 | 22.78                  | 22.69                  | 24                  | 0         |  |  |
| 20              | HQAM       | 50      | 50        | 22.72                 | 22.72                  | 22.70                  |                     |           |  |  |
| 20              | HQAM       | 100     | 0         | 22.88                 | 22.82                  | 22.52                  |                     |           |  |  |
| 20              | HQAM       | 1       | 0         | 22.56                 | 22.61                  | 22.30                  |                     |           |  |  |
| 20              | HQAM       | 1       | 49        | 22.88                 | 22.76                  | 22.73                  | 24                  | 0         |  |  |
| 20              | HQAM       | 50      | 0         | 22.72                 | 22.70                  | 22.54                  |                     |           |  |  |
| 20              | HQAM       | 50      | 0         | 21.64                 | 21.80                  | 21.37                  |                     |           |  |  |
| 20              | HQAM       | 50      | 24        | 21.81                 | 22.01                  | 21.59                  | 23                  | 1         |  |  |
| 20              | HQAM       | 50      | 50        | 21.80                 | 21.77                  | 21.53                  |                     |           |  |  |
| 20              | ZS3GAM     | 1       | 0         | 19.24                 | 19.28                  | 19.05                  |                     |           |  |  |
| 20              | ZS3GAM     | 1       | 49        | 19.11                 | 19.19                  | 19.17                  | 20                  | 4         |  |  |
| 20              | ZS3GAM     | 1       | 80        | 19.09                 | 18.95                  | 18.95                  |                     |           |  |  |
| 20              | ZS3GAM     | 50      | 0         | 19.13                 | 19.15                  | 19.03                  |                     |           |  |  |
| 20              | ZS3GAM     | 100     | 0         | 19.12                 | 19.03                  | 19.08                  |                     |           |  |  |
| Channel         |            |         |           |                       |                        |                        |                     |           |  |  |
| Frequency (MHz) |            |         |           |                       |                        |                        |                     |           |  |  |
| 15              | QPSK       | 1       | 0         | 22.43                 | 22.92                  | 22.25                  |                     |           |  |  |
| 15              | QPSK       | 1       | 47        | 22.65                 | 22.31                  | 22.27                  |                     |           |  |  |
| 15              | QPSK       | 1       | 74        | 22.00                 | 22.63                  | 22.41                  |                     |           |  |  |
| 15              | QPSK       | 50      | 0         | 22.78                 | 22.77                  | 22.58                  | 24                  | 0         |  |  |
| 15              | QPSK       | 50      | 28        | 22.68                 | 22.72                  | 22.54                  |                     |           |  |  |
| 15              | QPSK       | 50      | 50        | 22.83                 | 22.81                  | 22.75                  | 24                  | 0         |  |  |
| 15              | QPSK       | 100     | 0         | 22.73                 | 22.73                  | 22.35                  |                     |           |  |  |
| 15              | HQAM       | 1       | 0         | 22.50                 | 22.65                  | 22.34                  |                     |           |  |  |
| 15              | HQAM       | 1       | 47        | 22.54                 | 22.87                  | 22.29                  | 24                  | 0         |  |  |
| 15              | HQAM       | 1       | 74        | 22.27                 | 22.80                  | 22.27                  |                     |           |  |  |
| 15              | HQAM       | 50      | 0         | 22.71                 | 22.54                  | 22.41                  |                     |           |  |  |
| 15              | HQAM       | 50      | 28        | 22.37                 | 22.78                  | 22.58                  |                     |           |  |  |
| 15              | HQAM       | 50      | 50        | 22.64                 | 22.58                  | 22.50                  |                     |           |  |  |
| 15              | HQAM       | 100     | 0         | 22.52                 | 22.52                  | 22.25                  |                     |           |  |  |
| 15              | HQAM       | 1       | 0         | 22.03                 | 22.87                  | 22.05                  |                     |           |  |  |
| 15              | HQAM       | 1       | 27        | 22.61                 | 22.33                  | 22.28                  |                     |           |  |  |
| 15              | HQAM       | 1       | 50        | 22.53                 | 22.47                  | 22.28                  | 24                  | 0         |  |  |
| 15              | HQAM       | 50      | 30        | 22.42                 | 22.68                  | 22.40                  |                     |           |  |  |
| 15              | HQAM       | 50      | 50        | 22.62                 | 22.62                  | 22.40                  |                     |           |  |  |
| 15              | HQAM       | 50      | 99        | 22.60                 | 21.72                  | 21.44                  | 23                  | 1         |  |  |
| 15              | HQAM       | 100     | 0         | 22.50                 | 22.50                  | 22.25                  |                     |           |  |  |
| 15              | ZS3GAM     | 1       | 0         | 19.14                 | 19.07                  | 18.95                  |                     |           |  |  |
| 15              | ZS3GAM     | 1       | 27        | 19.09                 | 19.18                  | 19.10                  | 20                  |           |  |  |
| 15              | ZS3GAM     | 1       | 50        | 19.10                 | 19.10                  | 19.10                  |                     |           |  |  |
| 15              | ZS3GAM     | 50      | 30        | 19.21                 | 19.18                  | 19.14                  |                     |           |  |  |
| 15              | ZS3GAM     | 30      | 20        | 19.13                 | 19.07                  | 19.05                  | 20                  | 4         |  |  |
| 15              | ZS3GAM     | 30      | 50        | 19.04                 | 19.07                  | 19.00                  |                     |           |  |  |
| 15              | ZS3GAM     | 100     | 0         | 19.00                 | 19.00                  | 19.00                  |                     |           |  |  |
| Channel         |            |         |           |                       |                        |                        |                     |           |  |  |
| Frequency (MHz) |            |         |           |                       |                        |                        |                     |           |  |  |
| 10              | QPSK       | 1       | 0         | 22.59                 | 22.91                  | 22.41                  |                     |           |  |  |
| 10              | QPSK       | 1       | 49        | 22.61                 | 22.81                  | 22.61                  | 24                  | 0         |  |  |
| 10              | QPSK       | 1       | 49        | 22.55                 | 22.58                  | 22.51                  |                     |           |  |  |
| 10              | QPSK       | 20      | 0         | 22.35                 | 22.88                  | 22.48                  |                     |           |  |  |
| 10              | QPSK       | 20      | 22        | 22.52                 | 22.62                  | 22.42                  | 24                  | 0         |  |  |
| 10              | QPSK       | 25      | 25        | 22.83                 | 22.76                  | 22.65                  |                     |           |  |  |
| 10              | QPSK       | 50      | 0         | 22.58                 | 22.78                  | 22.63                  |                     |           |  |  |
| 10              | HQAM       | 1       | 0         | 22.70                 | 22.92                  | 22.60                  |                     |           |  |  |
| 10              | HQAM       | 1       | 49        | 22.73                 | 22.84                  | 22.73                  | 24                  | 0         |  |  |
| 10              | HQAM       | 1       | 49        | 22.81                 | 22.77                  | 22.38                  |                     |           |  |  |
| 10              | HQAM       | 25      | 0         | 22.19                 | 22.85                  | 22.50                  |                     |           |  |  |
| 10              | HQAM       | 25      | 25        | 22.84                 | 22.77                  | 22.43                  | 24                  | 0         |  |  |
| 10              | HQAM       | 50      | 0         | 22.63                 | 22.73                  | 22.48                  |                     |           |  |  |
| 10              | HQAM       | 50      | 1         | 22.64                 | 22.63                  | 22.28                  |                     |           |  |  |
| 10              | HQAM       | 50      | 49        | 22.70                 | 22.70                  | 22.43                  | 24                  | 0         |  |  |
| 10              | HQAM       | 1       | 49        | 22.80                 | 22.54                  | 22.30                  |                     |           |  |  |
| 10              | HQAM       | 25      | 0         | 21.41                 | 21.73                  | 21.59                  |                     |           |  |  |
| 10              | HQAM       | 25      | 25        | 21.61                 | 21.61                  | 21.41                  | 23                  | 1         |  |  |
| 10              | HQAM       | 25      | 25        | 21.84                 | 21.82                  | 21.48                  |                     |           |  |  |
| 10              | HQAM       | 50      | 0         | 21.70                 | 21.84                  | 21.45                  |                     |           |  |  |
| 10              | ZS3GAM     | 1       | 0         | 19.19                 | 19.19                  | 19.19                  | 20                  | 4         |  |  |
| 10              | ZS3GAM     | 1       | 25        | 19.08                 | 19.15                  | 19.13                  |                     |           |  |  |
| 10              | ZS3GAM     | 1       | 49        | 18.98                 | 18.98                  | 18.95                  |                     |           |  |  |
| 10              | ZS3GAM     | 25      | 0         | 19.19                 | 19.24                  | 19.22                  |                     |           |  |  |
| 10              | ZS3GAM     | 25      | 25        | 19.18                 | 19.18                  | 19.18                  | 20                  | 4         |  |  |
| 10              | ZS3GAM     | 25      | 25        | 19.00                 | 19.00                  | 19.00                  |                     |           |  |  |
| 10              | ZS3GAM     | 50      | 0         | 19.15                 | 19.05                  | 19.05                  |                     |           |  |  |
| Channel         |            |         |           |                       |                        |                        |                     |           |  |  |
| Frequency (MHz) |            |         |           |                       |                        |                        |                     |           |  |  |
| 5               | QPSK       | 1       | 0         | 22.48                 | 22.71                  | 22.40                  |                     |           |  |  |
| 5               | QPSK       | 1       | 42        | 22.68                 | 22.70                  | 22.68                  | 24                  | 0         |  |  |
| 5               | QPSK       | 1       | 24        | 22.74                 | 22.92                  | 22.64                  |                     |           |  |  |
| 5               | QPSK       | 12      | 12        | 22.65                 | 22.65                  | 22.43                  |                     |           |  |  |
| 5               | QPSK       | 12      | 12        | 22.84                 | 22.84                  | 22.72                  | 24                  | 0         |  |  |
| 5               | QPSK       | 12      | 13        | 22.72                 | 22.67                  | 22.50                  |                     |           |  |  |
| 5               | QPSK       | 12      | 13        | 22.81                 | 22.81                  | 22.61                  |                     |           |  |  |
| 5               | HQAM       | 1       | 0         | 22.67                 | 22.85                  | 22.15                  |                     |           |  |  |
| 5               | HQAM       | 1       | 42        | 22.60                 | 22.72                  | 22.51                  | 24                  | 0         |  |  |
| 5               | HQAM       | 12      | 12        | 22.70                 | 22.70                  | 22.49                  |                     |           |  |  |
| 5               | HQAM       | 12      | 13        | 22.22                 | 22.98                  | 22.52                  |                     |           |  |  |
| 5               | HQAM       | 12      | 7         | 22.48                 | 22.68                  | 22.68                  |                     |           |  |  |
| 5               | HQAM       | 12      | 13        | 22.74                 | 22.68                  | 22.15                  | 24                  | 0         |  |  |
| 5               | HQAM       | 12      | 13        | 22.82                 | 22.82                  | 22.43                  |                     |           |  |  |
| 5               | HQAM       | 1       | 0         | 22.43                 | 22.70                  | 22.12                  |                     |           |  |  |
| 5               | HQAM       | 1       | 42        | 22.80                 | 22.81                  | 22.63                  | 24                  | 0         |  |  |
| 5               | HQAM       | 12      | 12        | 22.74                 | 22.64                  | 22.32                  |                     |           |  |  |
| 5               | HQAM       | 12      | 0         | 21.90                 | 21.63                  | 21.51                  |                     |           |  |  |
| 5               | HQAM       | 12      | 7         | 21.71                 | 21.80                  | 21.65                  | 23                  | 1         |  |  |
| 5               | HQAM       | 12      | 13        | 21.84                 | 21.67                  | 21.58                  |                     |           |  |  |
| 5               | HQAM       | 12      | 13        | 21.88                 | 21.66                  | 21.58                  |                     |           |  |  |
| 5               | ZS3GAM     | 1       | 0         | 19.02                 | 19.18                  | 18.92                  | 20                  |           |  |  |
| 5               | ZS3GAM     | 1       | 12        | 19.05                 | 19.10                  | 19.10                  | 20                  | 4         |  |  |
| 5               | ZS3GAM     | 12      | 12        | 19.02                 | 19.02                  | 19.02                  |                     |           |  |  |
| 5               | ZS3GAM     | 12      | 0         | 19.13                 | 19.25                  | 19.12                  |                     |           |  |  |
| 5               | ZS3GAM     | 12      | 7         | 19.02                 | 19.04                  | 19.02                  | 20                  | 4         |  |  |
| 5               | ZS3GAM     | 12      | 13        | 19.10                 | 19.07                  | 19.05                  |                     |           |  |  |



| Band 41 (HPUE)_Ant 1 |            |          |           |                       |                              |                          |                               |                        |                    |                    |          |   |  |
|----------------------|------------|----------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|--------------------|--------------------|----------|---|--|
| BW (MHz)             | Modulation | RB (MHz) | HP Offset | Power Low Ch. (Freq.) | Power Low Middle Ch. (Freq.) | Power Middle Ch. (Freq.) | Power High Middle Ch. (Freq.) | Power High Ch. (Freq.) | Turn-on time (sec) | APR (dB)           |          |   |  |
| Channel              |            |          |           |                       |                              |                          |                               |                        |                    |                    |          |   |  |
| Frequency (MHz)      |            |          |           |                       |                              |                          |                               |                        |                    |                    |          |   |  |
| 20                   | QPSK       | 1        | 0         | 25.01                 | 25.11                        | 25.24                    | 25.36                         | 25.52                  |                    |                    | 24.5     | 0 |  |
| 20                   | QPSK       | 1        | 40        | 25.51                 | 25.53                        | 25.58                    | 25.72                         | 25.95                  |                    |                    |          |   |  |
| 20                   | QPSK       | 1        | 80        | 25.91                 | 25.93                        | 25.97                    | 26.09                         | 26.31                  |                    |                    |          |   |  |
| 20                   | QPSK       | 50       | 0         | 25.91                 | 25.93                        | 25.97                    | 26.09                         | 26.31                  |                    |                    |          |   |  |
| 20                   | QPSK       | 50       | 24        | 25.95                 | 25.97                        | 26.04                    | 26.16                         | 26.35                  |                    | 23.5               | 1        |   |  |
| 20                   | QPSK       | 50       | 50        | 25.92                 | 25.94                        | 25.99                    | 26.04                         | 26.09                  |                    |                    |          |   |  |
| 20                   | QPSK       | 100      | 0         | 25.94                 | 25.97                        | 25.99                    | 26.08                         | 26.10                  |                    |                    |          |   |  |
| 20                   | 16QAM      | 1        | 0         | 25.81                 | 25.81                        | 25.15                    | 25.09                         | 25.05                  |                    |                    |          |   |  |
| 20                   | 16QAM      | 1        | 40        | 25.82                 | 25.87                        | 25.19                    | 25.05                         | 25.07                  |                    | 24.5               | 0        |   |  |
| 20                   | 16QAM      | 1        | 80        | 25.86                 | 25.82                        | 25.12                    | 25.02                         | 25.02                  |                    |                    |          |   |  |
| 20                   | 16QAM      | 50       | 0         | 25.71                 | 25.72                        | 25.32                    | 25.05                         | 25.08                  |                    |                    |          |   |  |
| 20                   | 16QAM      | 50       | 24        | 25.17                 | 25.14                        | 25.40                    | 25.26                         | 25.12                  |                    | 22.5               | 2        |   |  |
| 20                   | 16QAM      | 100      | 0         | 25.16                 | 25.16                        | 25.20                    | 25.10                         | 25.10                  |                    |                    |          |   |  |
| 20                   | 16QAM      | 100      | 0         | 25.14                 | 25.16                        | 25.20                    | 25.17                         | 25.07                  |                    |                    |          |   |  |
| 20                   | 8QAM       | 1        | 0         | 25.84                 | 25.82                        | 25.28                    | 25.05                         | 25.08                  |                    |                    |          |   |  |
| 20                   | 8QAM       | 1        | 40        | 25.89                 | 25.19                        | 25.22                    | 25.17                         | 25.03                  |                    | 24.5               | 0        |   |  |
| 20                   | 8QAM       | 1        | 80        | 25.95                 | 25.15                        | 25.15                    | 25.06                         | 25.06                  |                    |                    |          |   |  |
| 20                   | 8QAM       | 50       | 0         | 25.88                 | 25.41                        | 25.22                    | 25.09                         | 25.08                  |                    |                    |          |   |  |
| 20                   | 8QAM       | 50       | 24        | 25.17                 | 25.38                        | 25.25                    | 25.30                         | 25.10                  |                    | 21.5               | 3        |   |  |
| 20                   | 8QAM       | 100      | 0         | 25.16                 | 25.12                        | 25.25                    | 25.24                         | 25.08                  |                    |                    |          |   |  |
| 20                   | 8QAM       | 100      | 0         | 25.88                 | 25.34                        | 25.38                    | 25.17                         | 25.16                  |                    |                    |          |   |  |
| Channel              |            |          |           |                       |                              |                          |                               |                        |                    | Turn-on time (sec) | APR (dB) |   |  |
| Frequency (MHz)      |            |          |           |                       |                              |                          |                               |                        |                    |                    |          |   |  |
| 15                   | QPSK       | 1        | 0         | 25.89                 | 25.90                        | 25.25                    | 25.76                         | 25.74                  |                    |                    | 24.5     | 0 |  |
| 15                   | QPSK       | 1        | 37        | 25.95                 | 25.90                        | 25.19                    | 25.83                         | 25.88                  |                    |                    |          |   |  |
| 15                   | QPSK       | 1        | 74        | 25.95                 | 25.25                        | 25.89                    | 25.80                         | 25.89                  |                    |                    |          |   |  |
| 15                   | QPSK       | 36       | 0         | 25.85                 | 25.85                        | 25.85                    | 25.85                         | 25.85                  |                    |                    |          |   |  |
| 15                   | QPSK       | 36       | 20        | 25.88                 | 25.87                        | 25.87                    | 25.88                         | 25.87                  |                    | 23.5               | 1        |   |  |
| 15                   | QPSK       | 36       | 36        | 25.91                 | 25.88                        | 25.18                    | 25.86                         | 25.78                  |                    |                    |          |   |  |
| 15                   | 16QAM      | 1        | 0         | 25.82                 | 25.82                        | 25.88                    | 25.88                         | 25.81                  |                    |                    |          |   |  |
| 15                   | 16QAM      | 1        | 37        | 25.88                 | 25.14                        | 25.89                    | 25.19                         | 25.09                  |                    | 24.5               | 0        |   |  |
| 15                   | 16QAM      | 1        | 74        | 25.88                 | 25.14                        | 25.82                    | 25.83                         | 25.84                  |                    |                    |          |   |  |
| 15                   | 16QAM      | 36       | 0         | 25.82                 | 25.87                        | 25.18                    | 25.88                         | 25.87                  |                    |                    |          |   |  |
| 15                   | 16QAM      | 36       | 20        | 25.87                 | 25.13                        | 25.13                    | 25.08                         | 25.91                  |                    | 22.5               | 2        |   |  |
| 15                   | 16QAM      | 36       | 36        | 25.15                 | 25.82                        | 25.24                    | 25.85                         | 25.14                  |                    |                    |          |   |  |
| 15                   | 8QAM       | 1        | 0         | 25.85                 | 25.85                        | 25.85                    | 25.85                         | 25.85                  |                    |                    |          |   |  |
| 15                   | 8QAM       | 1        | 0         | 25.78                 | 25.12                        | 25.89                    | 25.24                         | 25.88                  |                    | 24.5               | 0        |   |  |
| 15                   | 8QAM       | 1        | 37        | 25.84                 | 25.12                        | 25.19                    | 25.14                         | 25.83                  |                    |                    |          |   |  |
| 15                   | 8QAM       | 1        | 74        | 25.84                 | 25.12                        | 25.19                    | 25.14                         | 25.83                  |                    |                    |          |   |  |
| 15                   | 8QAM       | 36       | 0         | 25.88                 | 25.48                        | 25.87                    | 25.87                         | 25.82                  |                    |                    |          |   |  |
| 15                   | 8QAM       | 36       | 20        | 25.82                 | 25.09                        | 25.24                    | 25.18                         |                        |                    | 21.5               | 3        |   |  |
| 15                   | 8QAM       | 36       | 36        | 25.84                 | 25.22                        | 25.85                    | 25.18                         | 25.82                  |                    |                    |          |   |  |
| 15                   | 256QAM     | 1        | 0         | 25.84                 | 25.20                        | 25.84                    | 25.84                         | 25.87                  |                    |                    |          |   |  |
| 15                   | 256QAM     | 1        | 37        | 25.87                 | 25.20                        | 25.87                    | 25.22                         | 25.87                  |                    | 22.5               | 2        |   |  |
| 15                   | 256QAM     | 1        | 74        | 25.87                 | 25.20                        | 25.87                    | 25.22                         | 25.87                  |                    |                    |          |   |  |
| 15                   | 256QAM     | 36       | 0         | 25.87                 | 25.84                        | 25.78                    | 25.83                         | 25.81                  |                    |                    |          |   |  |
| 15                   | 256QAM     | 36       | 20        | 25.87                 | 25.78                        | 25.86                    | 25.86                         | 25.86                  |                    |                    |          |   |  |
| 15                   | 256QAM     | 36       | 36        | 25.87                 | 25.84                        | 25.78                    | 25.86                         | 25.84                  |                    |                    |          |   |  |
| Channel              |            |          |           |                       |                              |                          |                               |                        |                    | Turn-on time (sec) | APR (dB) |   |  |
| Frequency (MHz)      |            |          |           |                       |                              |                          |                               |                        |                    |                    |          |   |  |
| 10                   | QPSK       | 1        | 0         | 25.87                 | 25.87                        | 25.87                    | 25.87                         | 25.87                  |                    |                    | 24.5     | 0 |  |
| 10                   | QPSK       | 1        | 40        | 25.18                 | 25.24                        | 25.19                    | 25.08                         | 25.05                  |                    |                    |          |   |  |
| 10                   | QPSK       | 1        | 80        | 25.18                 | 25.24                        | 25.19                    | 25.08                         | 25.05                  |                    |                    |          |   |  |
| 10                   | QPSK       | 1        | 40        | 25.18                 | 25.24                        | 25.19                    | 25.08                         | 25.05                  |                    |                    |          |   |  |
| 10                   | QPSK       | 25       | 0         | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | QPSK       | 25       | 24        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    | 23.5               | 1        |   |  |
| 10                   | QPSK       | 25       | 48        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | QPSK       | 50       | 0         | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | QPSK       | 50       | 24        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | QPSK       | 50       | 48        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 16QAM      | 1        | 0         | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 16QAM      | 1        | 24        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    | 24.5               | 0        |   |  |
| 10                   | 16QAM      | 1        | 48        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 16QAM      | 1        | 72        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 16QAM      | 25       | 0         | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 16QAM      | 25       | 24        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 16QAM      | 25       | 48        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 16QAM      | 25       | 72        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 8QAM       | 1        | 0         | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 8QAM       | 1        | 24        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 8QAM       | 1        | 48        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 8QAM       | 1        | 72        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 8QAM       | 25       | 0         | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 8QAM       | 25       | 24        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 8QAM       | 25       | 48        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 8QAM       | 25       | 72        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 256QAM     | 1        | 0         | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 256QAM     | 1        | 24        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 256QAM     | 1        | 48        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 256QAM     | 1        | 72        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 256QAM     | 25       | 0         | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 256QAM     | 25       | 24        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 256QAM     | 25       | 48        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 10                   | 256QAM     | 25       | 72        | 25.88                 | 25.88                        | 25.88                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| Channel              |            |          |           |                       |                              |                          |                               |                        |                    | Turn-on time (sec) | APR (dB) |   |  |
| Frequency (MHz)      |            |          |           |                       |                              |                          |                               |                        |                    |                    |          |   |  |
| 5                    | QPSK       | 1        | 0         | 25.89                 | 25.89                        | 25.89                    | 25.89                         | 25.89                  |                    |                    | 24.5     | 0 |  |
| 5                    | QPSK       | 1        | 34        | 25.82                 | 25.23                        | 25.87                    | 25.77                         | 25.86                  |                    |                    |          |   |  |
| 5                    | QPSK       | 12       | 0         | 25.84                 | 25.28                        | 25.15                    | 25.80                         | 25.81                  |                    |                    |          |   |  |
| 5                    | QPSK       | 12       | 7         | 25.11                 | 25.24                        | 25.18                    | 25.88                         | 25.86                  |                    |                    |          |   |  |
| 5                    | QPSK       | 12       | 13        | 25.87                 | 25.22                        | 25.88                    | 25.12                         | 25.85                  |                    | 23.5               | 1        |   |  |
| 5                    | QPSK       | 25       | 0         | 25.84                 | 25.24                        | 25.11                    | 25.83                         | 25.80                  |                    |                    |          |   |  |
| 5                    | 16QAM      | 1        | 0         | 25.89                 | 25.82                        | 25.82                    | 25.84                         | 25.88                  |                    |                    |          |   |  |
| 5                    | 16QAM      | 1        | 34        | 25.81                 | 25.82                        | 25.82                    | 25.86                         | 25.88                  |                    | 24.5               | 0        |   |  |
| 5                    | 16QAM      | 1        | 24        | 25.84                 | 25.87                        | 25.13                    | 25.85                         | 25.87                  |                    |                    |          |   |  |
| 5                    | 16QAM      | 12       | 0         | 25.11                 | 25.80                        | 25.20                    | 25.08                         | 25.10                  |                    |                    |          |   |  |
| 5                    | 16QAM      | 12       | 7         | 25.16                 | 25.42                        | 25.18                    | 25.20                         | 25.10                  |                    | 22.5               | 2        |   |  |
| 5                    | 16QAM      | 12       | 13        | 25.83                 | 25.28                        | 25.43                    | 25.25                         | 25.89                  |                    |                    |          |   |  |
| 5                    | 16QAM      | 25       | 0         | 25.16                 | 25.30                        | 25.22                    | 25.89                         | 25.85                  |                    |                    |          |   |  |
| 5                    | 8QAM       | 1        | 0         | 25.81                 | 25.18                        | 25.15                    | 25.10                         | 25.10                  |                    |                    |          |   |  |
| 5                    | 8QAM       | 1        | 12        | 25.87                 | 25.12                        | 25.09                    | 25.13                         | 25.08                  |                    | 24.5               | 0        |   |  |
| 5                    | 8QAM       | 1        | 24        | 25.81                 | 25.91                        | 25.12                    | 25.88                         | 25.88                  |                    |                    |          |   |  |
| 5                    | 8QAM       | 12       | 0         | 25.12                 | 25.81                        | 25.12                    | 25.08                         | 25.08                  |                    |                    |          |   |  |
| 5                    | 8QAM       | 12       | 7         | 25.16                 | 25.16                        | 25.10                    | 25.07                         | 25.08                  |                    |                    |          |   |  |
| 5                    | 8QAM       | 12       | 13        | 25.82                 | 25.80                        | 25.18                    | 25.32                         | 25.11                  |                    | 21.5               | 3        |   |  |
| 5                    | 8QAM       | 25       | 0         | 25.11                 | 25.30                        | 25.20                    | 25.89                         | 25.85                  |                    |                    |          |   |  |
| 5                    | 8QAM       | 25       | 24        | 25.16                 | 25.41                        | 25.24                    | 25.08                         | 25.08                  |                    |                    |          |   |  |
| 5                    | 8QAM       | 25       | 48        | 25.87                 | 25.22                        | 25.88                    | 25.12                         | 25.85                  |                    |                    |          |   |  |
| 5                    | 8QAM       | 25       | 72        | 25.87                 | 25.22                        | 25.88                    | 25.12                         | 25.85                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 1        | 0         | 25.89                 | 25.89                        | 25.89                    | 25.89                         | 25.89                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 1        | 34        | 25.81                 | 25.82                        | 25.82                    | 25.86                         | 25.88                  |                    | 22.5               | 2        |   |  |
| 5                    | 256QAM     | 1        | 24        | 25.84                 | 25.87                        | 25.13                    | 25.85                         | 25.87                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 12       | 0         | 25.11                 | 25.80                        | 25.20                    | 25.08                         | 25.10                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 12       | 7         | 25.16                 | 25.42                        | 25.18                    | 25.20                         | 25.10                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 12       | 13        | 25.83                 | 25.28                        | 25.43                    | 25.25                         | 25.89                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 25       | 0         | 25.16                 | 25.30                        | 25.22                    | 25.89                         | 25.85                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 25       | 24        | 25.16                 | 25.41                        | 25.24                    | 25.08                         | 25.08                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 25       | 48        | 25.87                 | 25.22                        | 25.88                    | 25.12                         | 25.85                  |                    |                    |          |   |  |
| 5                    | 256QAM     | 25       | 72        | 25.87                 | 25.22                        | 25.88                    | 25.12                         | 25.85                  |                    |                    |          |   |  |

| Band 48_Ant 3   |            |         |           |                           |                           |                            |                     |                     |          |  |  |          |
|-----------------|------------|---------|-----------|---------------------------|---------------------------|----------------------------|---------------------|---------------------|----------|--|--|----------|
| BW (MHz)        | Modulation | RB Rate | RB Offset | Power Low Freq (Ch./Freq) | Power Low Middle Ch./Freq | Power High Middle Ch./Freq | Power High Ch./Freq | Turn-up time (secs) | MFR (dB) |  |  |          |
| Channel         |            |         |           | 55050                     | 55550                     | 56150                      | 56650               |                     |          |  |  |          |
| Frequency (MHz) |            |         |           | 55050                     | 55550                     | 56150                      | 56650               |                     |          |  |  |          |
| 20              | QPSK       | 1       | 0         | 20.43                     | 20.45                     | 20.53                      | 20.40               | 21                  | 0        |  |  |          |
| 20              | QPSK       | 1       | 46        | 20.53                     | 20.55                     | 20.55                      | 20.42               |                     |          |  |  |          |
| 20              | QPSK       | 50      | 0         | 20.53                     | 20.56                     | 20.56                      | 20.40               |                     |          |  |  |          |
| 20              | QPSK       | 50      | 0         | 19.81                     | 19.83                     | 19.91                      | 19.38               |                     |          |  |  |          |
| 20              | QPSK       | 50      | 24        | 19.80                     | 19.80                     | 19.75                      | 19.34               |                     |          |  |  |          |
| 20              | QPSK       | 50      | 50        | 19.48                     | 19.50                     | 19.52                      | 19.50               | 21                  | 0        |  |  |          |
| 20              | QPSK       | 100     | 0         | 19.75                     | 19.81                     | 19.87                      | 19.50               |                     |          |  |  |          |
| 20              | HQAM       | 1       | 0         | 20.41                     | 20.28                     | 20.18                      | 20.36               |                     |          |  |  |          |
| 20              | HQAM       | 1       | 46        | 20.53                     | 20.44                     | 20.50                      | 20.47               |                     |          |  |  |          |
| 20              | HQAM       | 1       | 46        | 20.53                     | 20.44                     | 20.50                      | 20.47               |                     |          |  |  |          |
| 20              | HQAM       | 50      | 0         | 19.81                     | 19.81                     | 19.82                      | 19.89               | 20                  | 1        |  |  |          |
| 20              | HQAM       | 50      | 24        | 19.73                     | 19.53                     | 19.58                      | 19.40               |                     |          |  |  |          |
| 20              | HQAM       | 50      | 50        | 19.74                     | 19.47                     | 19.58                      | 19.50               |                     |          |  |  |          |
| 20              | HQAM       | 100     | 0         | 19.73                     | 19.52                     | 19.45                      | 19.62               |                     |          |  |  |          |
| 20              | HQAM       | 1       | 0         | 19.43                     | 19.44                     | 19.37                      | 19.36               |                     |          |  |  |          |
| 20              | HQAM       | 1       | 46        | 19.63                     | 19.62                     | 19.51                      | 19.57               | 20                  | 1        |  |  |          |
| 20              | HQAM       | 50      | 0         | 19.63                     | 19.59                     | 19.55                      | 19.63               |                     |          |  |  |          |
| 20              | HQAM       | 50      | 0         | 17.58                     | 17.53                     | 17.53                      | 17.36               |                     |          |  |  |          |
| 20              | HQAM       | 50      | 24        | 17.76                     | 17.75                     | 17.46                      | 17.60               |                     |          |  |  |          |
| 20              | HQAM       | 50      | 50        | 17.76                     | 17.46                     | 17.50                      | 17.44               |                     |          |  |  |          |
| 20              | HQAM       | 100     | 0         | 17.71                     | 17.48                     | 17.79                      | 17.50               | 19                  | 2        |  |  |          |
| 20              | ZS3GAM     | 1       | 0         | 20.12                     | 20.11                     | 20.13                      | 20.05               |                     |          |  |  |          |
| 20              | ZS3GAM     | 1       | 46        | 20.36                     | 20.42                     | 20.42                      | 20.10               |                     |          |  |  |          |
| 20              | ZS3GAM     | 50      | 0         | 20.40                     | 20.31                     | 20.33                      | 20.25               |                     |          |  |  |          |
| 20              | ZS3GAM     | 100     | 0         | 20.41                     | 20.31                     | 20.47                      | 20.32               |                     |          |  |  |          |
| Channel         |            |         |           | 55115                     | 55615                     | 56165                      | 56665               | Turn-up time (secs) |          |  |  | MFR (dB) |
| Frequency (MHz) |            |         |           | 55115                     | 55615                     | 56165                      | 56665               |                     |          |  |  |          |
| 15              | QPSK       | 1       | 0         | 20.36                     | 20.33                     | 20.32                      | 20.34               | 21                  | 0        |  |  |          |
| 15              | QPSK       | 1       | 37        | 20.51                     | 20.44                     | 20.32                      | 20.38               |                     |          |  |  |          |
| 15              | QPSK       | 1       | 74        | 20.51                     | 20.23                     | 20.39                      | 20.33               |                     |          |  |  |          |
| 15              | QPSK       | 36      | 0         | 19.63                     | 19.43                     | 19.39                      | 19.45               |                     |          |  |  |          |
| 15              | QPSK       | 36      | 20        | 19.75                     | 19.64                     | 19.60                      | 19.58               |                     |          |  |  |          |
| 15              | QPSK       | 36      | 36        | 19.61                     | 19.41                     | 19.45                      | 19.44               | 21                  | 0        |  |  |          |
| 15              | HQAM       | 75      | 0         | 19.63                     | 19.43                     | 19.39                      | 19.47               |                     |          |  |  |          |
| 15              | HQAM       | 1       | 0         | 20.32                     | 20.25                     | 20.05                      | 20.26               |                     |          |  |  |          |
| 15              | HQAM       | 1       | 37        | 20.48                     | 20.33                     | 20.53                      | 20.37               |                     |          |  |  |          |
| 15              | HQAM       | 1       | 74        | 20.49                     | 20.38                     | 20.52                      | 20.33               |                     |          |  |  |          |
| 15              | HQAM       | 36      | 0         | 19.49                     | 19.66                     | 19.91                      | 19.81               | 21                  | 0        |  |  |          |
| 15              | HQAM       | 36      | 20        | 19.61                     | 19.45                     | 19.47                      | 19.46               |                     |          |  |  |          |
| 15              | HQAM       | 36      | 36        | 19.70                     | 19.43                     | 19.54                      | 19.79               |                     |          |  |  |          |
| 15              | HQAM       | 75      | 0         | 19.49                     | 19.48                     | 19.75                      | 19.42               |                     |          |  |  |          |
| 15              | HQAM       | 1       | 0         | 19.48                     | 19.34                     | 19.12                      | 19.37               |                     |          |  |  |          |
| 15              | HQAM       | 1       | 37        | 19.70                     | 19.51                     | 19.59                      | 19.35               | 20                  | 1        |  |  |          |
| 15              | HQAM       | 1       | 74        | 19.63                     | 19.58                     | 19.47                      | 19.47               |                     |          |  |  |          |
| 15              | HQAM       | 36      | 0         | 17.62                     | 17.54                     | 17.45                      | 17.40               |                     |          |  |  |          |
| 15              | HQAM       | 36      | 20        | 17.52                     | 17.77                     | 17.66                      | 17.58               |                     |          |  |  |          |
| 15              | HQAM       | 36      | 36        | 17.71                     | 17.57                     | 17.60                      | 17.57               |                     |          |  |  |          |
| 15              | HQAM       | 75      | 0         | 17.72                     | 17.46                     | 17.65                      | 17.29               | 19                  | 2        |  |  |          |
| 15              | ZS3GAM     | 1       | 0         | 20.10                     | 19.98                     | 20.13                      | 19.85               |                     |          |  |  |          |
| 15              | ZS3GAM     | 1       | 37        | 20.17                     | 20.10                     | 20.09                      | 20.09               |                     |          |  |  |          |
| 15              | ZS3GAM     | 1       | 74        | 20.32                     | 19.93                     | 20.18                      | 19.34               |                     |          |  |  |          |
| 15              | ZS3GAM     | 36      | 0         | 20.37                     | 20.30                     | 19.86                      | 19.98               |                     |          |  |  |          |
| 15              | ZS3GAM     | 36      | 20        | 20.31                     | 20.42                     | 20.23                      | 19.89               | 21                  | 0        |  |  |          |
| 15              | ZS3GAM     | 36      | 36        | 20.30                     | 19.93                     | 20.18                      | 19.34               |                     |          |  |  |          |
| 15              | ZS3GAM     | 75      | 0         | 20.38                     | 20.19                     | 20.37                      | 20.05               |                     |          |  |  |          |
| Channel         |            |         |           | 55200                     | 55815                     | 56165                      | 56665               | Turn-up time (secs) |          |  |  | MFR (dB) |
| Frequency (MHz) |            |         |           | 55200                     | 55815                     | 56165                      | 56665               |                     |          |  |  |          |
| 10              | QPSK       | 1       | 0         | 20.48                     | 20.23                     | 20.48                      | 19.93               | 21                  | 0        |  |  |          |
| 10              | QPSK       | 1       | 25        | 20.43                     | 20.40                     | 20.42                      | 20.36               |                     |          |  |  |          |
| 10              | QPSK       | 1       | 46        | 20.46                     | 20.27                     | 20.37                      | 20.23               |                     |          |  |  |          |
| 10              | QPSK       | 25      | 0         | 19.59                     | 19.46                     | 19.42                      | 19.30               |                     |          |  |  |          |
| 10              | QPSK       | 25      | 12        | 19.70                     | 19.63                     | 19.58                      | 19.81               |                     |          |  |  |          |
| 10              | QPSK       | 25      | 25        | 19.64                     | 19.50                     | 19.52                      | 19.43               | 21                  | 0        |  |  |          |
| 10              | QPSK       | 50      | 0         | 19.61                     | 19.56                     | 19.34                      | 19.49               |                     |          |  |  |          |
| 10              | HQAM       | 1       | 0         | 20.36                     | 20.33                     | 20.16                      | 20.26               |                     |          |  |  |          |
| 10              | HQAM       | 1       | 25        | 20.43                     | 20.35                     | 20.38                      | 20.46               |                     |          |  |  |          |
| 10              | HQAM       | 1       | 46        | 20.38                     | 20.41                     | 20.29                      | 20.37               |                     |          |  |  |          |
| 10              | HQAM       | 25      | 0         | 19.56                     | 19.51                     | 19.34                      | 19.50               | 20                  | 1        |  |  |          |
| 10              | HQAM       | 25      | 12        | 19.66                     | 19.42                     | 19.50                      | 19.44               |                     |          |  |  |          |
| 10              | HQAM       | 25      | 25        | 19.62                     | 19.41                     | 19.34                      | 19.67               |                     |          |  |  |          |
| 10              | HQAM       | 50      | 0         | 19.63                     | 19.50                     | 19.44                      | 19.54               |                     |          |  |  |          |
| 10              | HQAM       | 50      | 0         | 19.49                     | 19.27                     | 19.15                      | 19.15               |                     |          |  |  |          |
| 10              | HQAM       | 1       | 25        | 19.64                     | 19.43                     | 19.42                      | 19.26               | 20                  | 1        |  |  |          |
| 10              | HQAM       | 1       | 46        | 19.63                     | 19.52                     | 19.45                      | 19.64               |                     |          |  |  |          |
| 10              | HQAM       | 25      | 0         | 17.52                     | 17.39                     | 17.26                      | 17.28               |                     |          |  |  |          |
| 10              | HQAM       | 25      | 12        | 17.65                     | 17.51                     | 17.46                      | 17.46               |                     |          |  |  |          |
| 10              | HQAM       | 25      | 25        | 17.65                     | 17.58                     | 17.50                      | 17.53               |                     |          |  |  |          |
| 10              | HQAM       | 50      | 0         | 17.47                     | 17.38                     | 17.37                      | 17.34               | 19                  | 2        |  |  |          |
| 10              | ZS3GAM     | 1       | 0         | 19.98                     | 19.94                     | 20.12                      | 19.98               |                     |          |  |  |          |
| 10              | ZS3GAM     | 1       | 25        | 20.29                     | 20.41                     | 20.25                      | 20.15               |                     |          |  |  |          |
| 10              | ZS3GAM     | 1       | 46        | 20.14                     | 20.11                     | 19.95                      | 20.16               |                     |          |  |  |          |
| 10              | ZS3GAM     | 25      | 0         | 20.32                     | 20.30                     | 20.19                      | 20.10               |                     |          |  |  |          |
| 10              | ZS3GAM     | 25      | 12        | 20.31                     | 20.30                     | 20.09                      | 20.24               | 21                  | 0        |  |  |          |
| 10              | ZS3GAM     | 25      | 25        | 20.45                     | 20.24                     | 20.40                      | 20.24               |                     |          |  |  |          |
| 10              | ZS3GAM     | 50      | 0         | 20.13                     | 20.23                     | 20.05                      |                     |                     |          |  |  |          |
| Channel         |            |         |           | 55265                     | 55815                     | 56170                      | 56715               | Turn-up time (secs) |          |  |  | MFR (dB) |
| Frequency (MHz) |            |         |           | 55265                     | 55815                     | 56170                      | 56715               |                     |          |  |  |          |
| 5               | QPSK       | 1       | 0         | 20.31                     | 20.23                     | 20.17                      | 20.33               | 21                  | 0        |  |  |          |
| 5               | QPSK       | 1       | 37        | 20.52                     | 20.47                     | 20.41                      | 20.30               |                     |          |  |  |          |
| 5               | QPSK       | 1       | 24        | 20.48                     | 20.35                     | 20.37                      | 20.26               |                     |          |  |  |          |
| 5               | QPSK       | 12      | 0         | 19.68                     | 19.47                     | 19.47                      | 19.28               |                     |          |  |  |          |
| 5               | QPSK       | 12      | 7         | 19.76                     | 19.66                     | 19.63                      | 19.51               |                     |          |  |  |          |
| 5               | QPSK       | 12      | 13        | 19.61                     | 19.37                     | 19.52                      | 19.36               | 21                  | 0        |  |  |          |
| 5               | QPSK       | 25      | 0         | 19.66                     | 19.50                     | 19.41                      | 19.49               |                     |          |  |  |          |
| 5               | HQAM       | 1       | 0         | 20.38                     | 20.27                     | 20.06                      | 20.24               |                     |          |  |  |          |
| 5               | HQAM       | 1       | 37        | 20.42                     | 20.40                     | 20.40                      | 20.47               |                     |          |  |  |          |
| 5               | HQAM       | 1       | 24        | 20.44                     | 20.40                     | 20.25                      | 20.42               |                     |          |  |  |          |
| 5               | HQAM       | 12      | 0         | 19.61                     | 19.50                     | 19.40                      | 19.69               | 21                  | 0        |  |  |          |
| 5               | HQAM       | 12      | 7         | 19.62                     | 19.52                     | 19.51                      | 19.46               |                     |          |  |  |          |
| 5               | HQAM       | 12      | 13        | 19.71                     | 19.39                     | 19.61                      | 19.75               |                     |          |  |  |          |
| 5               | HQAM       | 25      | 0         | 19.63                     | 19.48                     | 19.35                      | 19.55               |                     |          |  |  |          |
| 5               | HQAM       | 1       | 0         | 19.42                     | 19.29                     | 19.37                      | 19.36               |                     |          |  |  |          |
| 5               | HQAM       | 1       | 12        | 19.40                     | 19.67                     | 19.57                      | 19.34               | 20                  | 1        |  |  |          |
| 5               | HQAM       | 1       | 24        | 19.54                     | 19.38                     | 19.42                      | 19.36               |                     |          |  |  |          |
| 5               | HQAM       | 12      | 0         | 17.58                     | 17.39                     | 17.38                      | 17.42               |                     |          |  |  |          |
| 5               | HQAM       | 12      | 7         | 17.54                     | 17.56                     | 17.39                      | 17.47               |                     |          |  |  |          |
| 5               | HQAM       | 12      | 13        | 17.60                     | 17.37                     | 17.67                      | 17.50               |                     |          |  |  |          |
| 5               | HQAM       | 25      | 0         | 17.57                     | 17.57                     | 17.63                      | 17.55               | 19                  | 2        |  |  |          |
| 5               | ZS3GAM     | 1       | 0         | 20.13                     | 20.00                     | 20.17                      | 20.12               |                     |          |  |  |          |
| 5               | ZS3GAM     | 1       | 12        | 20.08                     | 20.41                     | 20.21                      | 19.84               |                     |          |  |  |          |
| 5               | ZS3GAM     | 1       | 24        | 20.23                     | 19.91                     | 19.98                      | 20.39               |                     |          |  |  |          |
| 5               | ZS3GAM     | 12      | 0         | 20.18                     | 20.20                     | 20.14                      | 20.07               |                     |          |  |  |          |
| 5               | ZS3GAM     | 12      | 7         | 20.44                     | 20.32                     | 20.06                      | 20.16               | 21                  | 0        |  |  |          |
| 5               | ZS3GAM     | 12      | 13        | 20.40                     | 20.01                     | 20.16                      | 20.26               |                     |          |  |  |          |
| 5               | ZS3GAM     | 25      | 0         | 20.17                     | 20.04                     | 20.00                      | 20.06               |                     |          |  |  |          |
| Channel         |            |         |           | 55315                     | 55815                     | 56170                      | 56715               | Turn-up time (secs) |          |  |  | MFR (dB) |
| Frequency (MHz) |            |         |           |                           |                           |                            |                     |                     |          |  |  |          |



Reduced Power Mode for DSiE

| DSiE001, Rev 0            |       |       |                     |               |       | DSiE001, Rev 1            |       |               |                     |       |       |
|---------------------------|-------|-------|---------------------|---------------|-------|---------------------------|-------|---------------|---------------------|-------|-------|
| Board Average Power (dBm) |       |       | Turn-up Limit (dBm) |               |       | Board Average Power (dBm) |       |               | Turn-up Limit (dBm) |       |       |
| TX Channel                | 128   | 180   | 251                 | Turn-up Limit | 128   | 180                       | 251   | Turn-up Limit | 128                 | 180   | 251   |
| Frequency (MHz)           | 804.2 | 804.4 | 804.6               | (dBm)         | 804.2 | 804.4                     | 804.6 | (dBm)         | 804.2               | 804.4 | 804.6 |
| DSiE 1 Tx mode            | 32.17 | 32.11 | 32.12               | 30.50         | 32.17 | 32.11                     | 32.12 | 30.50         | 32.17               | 32.11 | 32.12 |
| DSiE 1 Tx mode            | 32.17 | 32.09 | 32.21               | 32.50         | 32.17 | 32.09                     | 32.21 | 32.50         | 32.17               | 32.09 | 32.21 |
| DSiE 2 Tx mode            | 30.41 | 30.28 | 30.33               | 30.50         | 30.41 | 30.28                     | 30.33 | 30.50         | 30.41               | 30.28 | 30.33 |
| DSiE 3 Tx mode            | 28.54 | 28.18 | 28.51               | 28.50         | 28.54 | 28.18                     | 28.51 | 28.50         | 28.54               | 28.18 | 28.51 |
| DSiE 4 Tx mode            | 26.69 | 26.59 | 27.30               | 27.50         | 26.69 | 26.59                     | 27.30 | 27.50         | 26.69               | 26.59 | 27.30 |
| DSiE 5 Tx mode            | 26.69 | 26.38 | 26.46               | 27.50         | 17.66 | 17.38                     | 17.46 | 18.00         | 26.69               | 26.38 | 26.46 |
| DSiE 6 Tx mode            | 25.51 | 25.47 | 25.82               | 26.50         | 18.26 | 18.21                     | 18.56 | 20.24         | 25.51               | 25.47 | 25.82 |
| DSiE 7 Tx mode            | 23.94 | 21.69 | 21.97               | 23.50         | 18.56 | 18.59                     | 18.97 | 20.50         | 23.94               | 21.69 | 21.97 |

| DSiE001, Rev 1            |        |        |                     |               |        | DSiE001, Rev 2            |        |               |                     |        |        |
|---------------------------|--------|--------|---------------------|---------------|--------|---------------------------|--------|---------------|---------------------|--------|--------|
| Board Average Power (dBm) |        |        | Turn-up Limit (dBm) |               |        | Board Average Power (dBm) |        |               | Turn-up Limit (dBm) |        |        |
| TX Channel                | 810    | 861    | 810                 | Turn-up Limit | 810    | 861                       | 810    | Turn-up Limit | 810                 | 861    | 810    |
| Frequency (MHz)           | 1802.2 | 1802.4 | 1802.6              | (dBm)         | 1802.2 | 1802.4                    | 1802.6 | (dBm)         | 1802.2              | 1802.4 | 1802.6 |
| DSiE 1 Tx mode            | 28.60  | 28.24  | 28.30               | 30.50         | 18.60  | 18.24                     | 28.30  | 21.00         | 28.60               | 28.24  | 28.30  |
| DSiE 2 Tx mode            | 26.56  | 26.52  | 26.27               | 30.50         | 18.56  | 18.52                     | 26.27  | 21.00         | 26.56               | 26.52  | 26.27  |
| DSiE 3 Tx mode            | 25.45  | 25.30  | 25.80               | 27.50         | 18.45  | 18.30                     | 18.80  | 21.00         | 25.45               | 25.30  | 25.80  |
| DSiE 4 Tx mode            | 25.45  | 25.24  | 25.71               | 28.30         | 18.26  | 18.46                     | 18.46  | 22.24         | 25.45               | 25.24  | 25.71  |
| DSiE 5 Tx mode            | 23.90  | 22.12  | 22.60               | 24.00         | 18.56  | 18.12                     | 18.60  | 21.00         | 23.90               | 22.12  | 22.60  |
| DSiE 6 Tx mode            | 24.72  | 24.47  | 24.68               | 26.50         | 18.72  | 18.47                     | 18.68  | 17.50         | 24.72               | 24.47  | 24.68  |
| DSiE 7 Tx mode            | 25.45  | 25.36  | 25.12               | 28.30         | 17.46  | 17.36                     | 17.12  | 18.50         | 25.45               | 25.36  | 25.12  |
| DSiE 8 Tx mode            | 22.15  | 21.68  | 21.59               | 22.50         | 17.66  | 17.42                     | 17.55  | 18.24         | 22.15               | 21.68  | 21.59  |
| DSiE 9 Tx mode            | 22.21  | 22.30  | 22.01               | 22.50         | 17.22  | 17.30                     | 17.01  | 18.00         | 22.21               | 22.30  | 22.01  |

| DSiE001, Rev 1  |       |       |                     |               |       | DSiE001, Rev 2 |       |               |       |       |       |
|-----------------|-------|-------|---------------------|---------------|-------|----------------|-------|---------------|-------|-------|-------|
| Board           |       |       | Turn-up Limit (dBm) |               |       | Board          |       |               |       |       |       |
| TX Channel      | 5202  | 5602  | 5202                | Turn-up Limit | 5202  | 5602           | 5202  | Turn-up Limit | 5202  | 5602  | 5202  |
| Frequency (MHz) | 9602  | 9602  | 9602                | (dBm)         | 9602  | 9602           | 9602  | (dBm)         | 9602  | 9602  | 9602  |
| SCiPP Rev 00    | 18.32 | 18.68 | 18.26               | 18.70         | 21.56 | 21.26          | 21.56 | 21.50         | 18.32 | 18.68 | 18.26 |
| SCiPP Rev 00    | 18.30 | 18.71 | 18.28               | 18.70         | 21.56 | 21.28          | 21.56 | 22.50         | 18.30 | 18.71 | 18.28 |
| SCiPP Rev 01    | 17.49 | 17.67 | 17.42               | 18.70         | 21.27 | 21.28          | 21.27 | 21.50         | 17.49 | 17.67 | 17.42 |
| SCiPP Rev 01    | 17.31 | 17.60 | 17.41               | 18.70         | 21.05 | 21.41          | 21.05 | 21.50         | 17.31 | 17.60 | 17.41 |
| SCiPP Rev 01    | 16.83 | 17.18 | 16.86               | 18.20         | 20.60 | 21.02          | 20.63 | 21.40         | 16.83 | 17.18 | 16.86 |
| SCiPP Rev 01    | 16.72 | 17.11 | 16.91               | 18.20         | 20.50 | 21.00          | 20.50 | 21.40         | 16.72 | 17.11 | 16.91 |
| SCiPP Rev 01    | 17.47 | 17.51 | 17.44               | 18.70         | 21.21 | 21.28          | 21.08 | 21.50         | 17.47 | 17.51 | 17.44 |
| SCiPP Rev 01    | 17.30 | 17.44 | 17.23               | 18.70         | 21.18 | 21.26          | 21.08 | 21.50         | 17.30 | 17.44 | 17.23 |
| SCiPP Rev 01    | 16.92 | 16.97 | 16.90               | 18.20         | 20.70 | 20.78          | 20.50 | 21.40         | 16.92 | 16.97 | 16.90 |
| SCiPP Rev 01    | 16.89 | 16.89 | 16.78               | 18.20         | 20.70 | 20.81          | 20.64 | 21.40         | 16.89 | 16.89 | 16.78 |
| SCiPP Rev 01    | 17.36 | 17.67 | 17.45               | 18.70         | 21.12 | 21.58          | 21.26 | 21.50         | 17.36 | 17.67 | 17.45 |
| SCiPP Rev 01    | 16.91 | 16.86 | 16.36               | 18.70         | 18.10 | 18.36          | 18.34 | 18.80         | 16.91 | 16.86 | 16.36 |
| SCiPP Rev 01    | 16.91 | 16.61 | 16.34               | 17.70         | 20.20 | 20.44          | 20.11 | 20.50         | 16.91 | 16.61 | 16.34 |
| SCiPP Rev 01    | 16.30 | 16.61 | 16.30               | 18.70         | 18.22 | 18.38          | 18.11 | 19.80         | 16.30 | 16.61 | 16.30 |
| SCiPP Rev 01    | 17.31 | 17.40 | 17.40               | 18.70         | 21.20 | 21.48          | 21.07 | 21.50         | 17.31 | 17.40 | 17.40 |

| DSiE001, Rev 1  |       |       |                     |               |       | DSiE001, Rev 2 |       |               |       |       |       |
|-----------------|-------|-------|---------------------|---------------|-------|----------------|-------|---------------|-------|-------|-------|
| Board           |       |       | Turn-up Limit (dBm) |               |       | Board          |       |               |       |       |       |
| TX Channel      | 4152  | 4162  | 4233                | Turn-up Limit | 4152  | 4162           | 4233  | Turn-up Limit | 4152  | 4162  | 4233  |
| Frequency (MHz) | 4302  | 4402  | 4402                | (dBm)         | 4302  | 4402           | 4402  | (dBm)         | 4302  | 4402  | 4402  |
| SCiPP Rev 00    | 24.40 | 24.51 | 24.60               | 25.30         | 24.30 | 24.40          | 24.57 | 25.30         | 24.40 | 24.51 | 24.60 |
| SCiPP Rev 00    | 24.31 | 24.53 | 24.62               | 25.30         | 24.30 | 24.44          | 24.50 | 25.30         | 24.31 | 24.53 | 24.62 |
| SCiPP Rev 01    | 23.45 | 23.25 | 23.60               | 24.00         | 23.30 | 23.41          | 23.40 | 24.00         | 23.45 | 23.25 | 23.60 |
| SCiPP Rev 01    | 23.46 | 23.35 | 23.60               | 24.00         | 23.30 | 23.47          | 23.60 | 24.00         | 23.46 | 23.35 | 23.60 |
| SCiPP Rev 01    | 23.01 | 23.06 | 23.16               | 23.50         | 22.80 | 22.89          | 23.00 | 23.50         | 23.01 | 23.06 | 23.16 |
| SCiPP Rev 01    | 22.80 | 23.00 | 23.10               | 23.50         | 22.60 | 22.78          | 22.90 | 23.50         | 22.80 | 23.00 | 23.10 |
| SCiPP Rev 01    | 23.21 | 23.31 | 23.54               | 24.00         | 23.01 | 23.36          | 23.74 | 24.00         | 23.21 | 23.31 | 23.54 |
| SCiPP Rev 01    | 23.18 | 23.20 | 23.46               | 24.00         | 23.18 | 23.20          | 23.71 | 24.00         | 23.18 | 23.20 | 23.46 |
| SCiPP Rev 01    | 22.72 | 22.82 | 22.99               | 23.50         | 22.30 | 22.41          | 22.30 | 23.50         | 22.72 | 22.82 | 22.99 |
| SCiPP Rev 01    | 22.71 | 22.96 | 22.98               | 23.50         | 22.34 | 22.45          | 22.40 | 23.50         | 22.71 | 22.96 | 22.98 |
| SCiPP Rev 01    | 21.40 | 21.50 | 21.70               | 24.00         | 21.30 | 21.42          | 21.60 | 24.00         | 21.40 | 21.50 | 21.70 |
| SCiPP Rev 01    | 21.34 | 21.54 | 21.72               | 22.50         | 21.30 | 21.44          | 21.61 | 22.50         | 21.34 | 21.54 | 21.72 |
| SCiPP Rev 01    | 22.41 | 22.50 | 22.68               | 23.50         | 22.20 | 22.42          | 22.60 | 23.50         | 22.41 | 22.50 | 22.68 |
| SCiPP Rev 01    | 21.40 | 21.57 | 21.74               | 24.00         | 21.10 | 21.42          | 21.61 | 24.00         | 21.40 | 21.57 | 21.74 |
| SCiPP Rev 01    | 22.00 | 22.00 | 22.70               | 24.00         | 22.30 | 22.40          | 22.80 | 24.00         | 22.00 | 22.00 | 22.70 |

| DSiE001, Rev 1            |       |       |                     |               |       | DSiE001, Rev 2            |       |               |                     |       |       |
|---------------------------|-------|-------|---------------------|---------------|-------|---------------------------|-------|---------------|---------------------|-------|-------|
| Board Average Power (dBm) |       |       | Turn-up Limit (dBm) |               |       | Board Average Power (dBm) |       |               | Turn-up Limit (dBm) |       |       |
| TX Channel                | 128   | 180   | 251                 | Turn-up Limit | 128   | 180                       | 251   | Turn-up Limit | 128                 | 180   | 251   |
| Frequency (MHz)           | 804.2 | 804.4 | 804.6               | (dBm)         | 804.2 | 804.4                     | 804.6 | (dBm)         | 804.2               | 804.4 | 804.6 |
| DSiE 1 Tx mode            | 32.28 | 32.43 | 32.08               | 32.50         | 32.28 | 32.43                     | 32.08 | 32.50         | 32.28               | 32.43 | 32.08 |
| DSiE 2 Tx mode            | 32.37 | 32.48 | 32.03               | 32.50         | 32.37 | 32.48                     | 32.03 | 32.50         | 32.37               | 32.48 | 32.03 |
| DSiE 3 Tx mode            | 30.28 | 30.32 | 30.24               | 30.50         | 30.28 | 30.32                     | 30.24 | 30.50         | 30.28               | 30.32 | 30.24 |
| DSiE 4 Tx mode            | 28.47 | 28.69 | 28.60               | 28.50         | 28.47 | 28.69                     | 28.60 | 28.50         | 28.47               | 28.69 | 28.60 |
| DSiE 5 Tx mode            | 26.89 | 26.80 | 27.23               | 27.50         | 26.89 | 26.80                     | 27.23 | 27.50         | 26.89               | 26.80 | 27.23 |
| DSiE 6 Tx mode            | 26.77 | 26.58 | 26.61               | 27.50         | 27.00 | 17.58                     | 17.61 | 18.00         | 26.77               | 26.58 | 26.61 |
| DSiE 7 Tx mode            | 25.40 | 25.33 | 25.20               | 26.00         | 26.00 | 18.33                     | 18.30 | 20.00         | 25.40               | 25.33 | 25.20 |
| DSiE 8 Tx mode            | 23.89 | 23.63 | 24.03               | 24.00         | 24.00 | 18.37                     | 18.77 | 20.24         | 23.89               | 23.63 | 24.03 |
| DSiE 9 Tx mode            | 22.01 | 22.18 | 22.27               | 23.00         | 23.00 | 18.18                     | 18.27 | 20.00         | 22.01               | 22.18 | 22.27 |

| DSiE001, Rev 2            |        |        |                     |               |        | DSiE001, Rev 3            |        |               |                     |        |        |
|---------------------------|--------|--------|---------------------|---------------|--------|---------------------------|--------|---------------|---------------------|--------|--------|
| Board Average Power (dBm) |        |        | Turn-up Limit (dBm) |               |        | Board Average Power (dBm) |        |               | Turn-up Limit (dBm) |        |        |
| TX Channel                | 810    | 861    | 810                 | Turn-up Limit | 810    | 861                       | 810    | Turn-up Limit | 810                 | 861    | 810    |
| Frequency (MHz)           | 1802.2 | 1802.4 | 1802.6              | (dBm)         | 1802.2 | 1802.4                    | 1802.6 | (dBm)         | 1802.2              | 1802.4 | 1802.6 |
| DSiE 1 Tx mode            | 30.24  | 30.27  | 29.63               | 30.50         | 21.24  | 21.27                     | 29.61  | 21.50         | 30.24               | 30.27  | 29.61  |
| DSiE 2 Tx mode            | 30.22  | 30.28  | 29.61               | 30.50         | 21.22  | 21.29                     | 29.61  | 21.50         | 30.22               | 30.28  | 29.61  |
| DSiE 3 Tx mode            | 28.69  | 28.11  | 27.71               | 28.50         | 22.09  | 22.11                     | 27.71  | 22.50         | 28.69               | 28.11  | 27.71  |
| DSiE 4 Tx mode            | 26.03  | 26.10  | 25.94               | 26.50         | 21.77  | 21.84                     | 21.68  | 22.24         | 26.03               | 26.10  | 25.94  |
| DSiE 5 Tx mode            | 24.16  | 24.53  | 23.67               | 25.00         | 21.16  | 21.53                     | 23.67  | 22.00         | 24.16               | 24.53  | 23.67  |
| DSiE 6 Tx mode            | 26.08  | 26.20  | 25.67               | 26.50         | 17.68  | 17.60                     | 18.67  | 17.50         | 26.08               | 26.20  | 25.67  |
| DSiE 7 Tx mode            | 25.09  | 25.14  | 24.71               | 25.50         | 18.09  | 18.14                     | 18.71  | 18.50         | 25.09               | 25.14  | 24.71  |
| DSiE 8 Tx mode            | 23.46  | 23.58  | 23.96               | 24.00         | 18.26  | 18.34                     | 18.73  | 18.74         | 23.46               | 23.58  | 23.96  |
| DSiE 9 Tx mode            | 21.88  | 21.92  | 21.30               | 22.50         | 18.80  | 18.92                     | 18.30  | 18.50         | 21.88               | 21.92  | 21.30  |

| Board        |                 | WCDMA Rev 3.1 |       |       |                     | WCDMA Rev 4 |       |       |                     |
|--------------|-----------------|---------------|-------|-------|---------------------|-------------|-------|-------|---------------------|
| TX Channel   | Frequency (MHz) | 1312          | 1412  | 1513  | Turn-up Limit (dBm) | 1312        | 1412  | 1513  | Turn-up Limit (dBm) |
| SCiPP Rev 00 | SCiPP Rev 00    | 18.64         | 18.63 | 18.64 | 18.70               | 21.62       | 21.66 | 18.64 | 21.60               |
| SCiPP Rev 00 | SCiPP Rev 00    | 18.67         | 18.66 | 18.77 | 20.70               | 21.64       | 22.07 | 22.01 | 22.50               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.48         | 18.44 | 18.50 | 18.70               | 21.16       | 21.47 | 21.44 | 21.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.46         | 18.30 | 18.26 | 18.70               | 20.86       | 21.20 | 21.20 | 21.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.58         | 18.57 | 18.58 | 18.70               | 21.16       | 21.16 | 21.16 | 21.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 17.57         | 17.60 | 17.73 | 19.70               | 20.51       | 20.70 | 20.66 | 21.20               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.18         | 18.26 | 18.26 | 18.70               | 20.21       | 21.16 | 21.00 | 21.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.08         | 18.08 | 18.08 | 18.70               | 20.20       | 20.20 | 20.20 | 21.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 17.07         | 17.68 | 17.67 | 19.70               | 20.20       | 20.43 | 20.43 | 21.20               |
| SCiPP Rev 01 | SCiPP Rev 01    | 17.96         | 17.67 | 17.53 | 19.70               | 20.30       | 20.62 | 20.41 | 21.20               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.71         | 18.71 | 18.71 | 19.70               | 20.20       | 21.16 | 21.16 | 21.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.18         | 18.32 | 18.31 | 17.70               | 20.20       | 20.20 | 19.27 | 18.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 17.11         | 17.29 | 17.30 | 18.70               | 20.03       | 20.24 | 20.20 | 20.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.20         | 18.20 | 18.20 | 17.70               | 20.20       | 20.20 | 19.27 | 18.80               |
| SCiPP Rev 01 | SCiPP Rev 01    | 18.08         | 18.35 | 18.31 | 17.70               | 21.03       | 21.20 | 21.17 | 21.80               |



MINISTRY OF NATIONAL DEFENSE  
REPUBLIC OF TURKEY

| Band 2_Ant 1    |            |         |           |                  |                   |                  |                   |               |                |           |  |
|-----------------|------------|---------|-----------|------------------|-------------------|------------------|-------------------|---------------|----------------|-----------|--|
| RF (MHz)        | Modulation | RF Rate | RF Offset | Power Low (Freq) | Power High (Freq) | Power Low (Freq) | Power High (Freq) | Turn-on (min) | Turn-off (min) | APRS (dB) |  |
| Channel         |            |         |           |                  |                   |                  |                   |               |                |           |  |
| Frequency (MHz) |            |         |           |                  |                   |                  |                   |               |                |           |  |
| 20              | QPSK       | 1       | 0         | 19.85            | 19.93             | 19.78            |                   |               |                |           |  |
| 20              | QPSK       | 1       | 40        | 19.85            | 19.93             | 19.78            | 21                | 0             |                |           |  |
| 20              | QPSK       | 1       | 80        | 19.85            | 19.93             | 19.78            |                   |               |                |           |  |
| 20              | QPSK       | 50      | 0         | 19.82            | 19.91             | 19.84            |                   |               |                |           |  |
| 20              | QPSK       | 50      | 24        | 19.85            | 19.93             | 19.78            | 21                | 0             |                |           |  |
| 20              | QPSK       | 50      | 50        | 19.82            | 19.91             | 19.85            |                   |               |                |           |  |
| 20              | HQAM       | 1       | 0         | 19.75            | 19.84             | 19.86            |                   |               |                |           |  |
| 20              | HQAM       | 1       | 40        | 19.75            | 19.84             | 19.86            | 21                | 0             |                |           |  |
| 20              | HQAM       | 1       | 80        | 19.75            | 19.84             | 19.86            |                   |               |                |           |  |
| 20              | HQAM       | 50      | 0         | 19.83            | 19.94             | 19.86            |                   |               |                |           |  |
| 20              | HQAM       | 50      | 24        | 19.85            | 19.93             | 19.86            | 21                | 0             |                |           |  |
| 20              | HQAM       | 50      | 50        | 19.83            | 19.93             | 19.86            |                   |               |                |           |  |
| 20              | HQAM       | 100     | 0         | 19.82            | 19.93             | 19.85            |                   |               |                |           |  |
| 20              | HQAM       | 1       | 0         | 19.55            | 19.58             | 19.51            |                   |               |                |           |  |
| 20              | HQAM       | 1       | 40        | 19.55            | 19.58             | 19.51            | 21                | 0             |                |           |  |
| 20              | HQAM       | 1       | 80        | 19.55            | 19.58             | 19.51            |                   |               |                |           |  |
| 20              | HQAM       | 50      | 0         | 19.85            | 19.96             | 19.72            |                   |               |                |           |  |
| 20              | HQAM       | 50      | 24        | 19.85            | 19.96             | 19.72            | 21                | 0             |                |           |  |
| 20              | HQAM       | 50      | 50        | 19.85            | 19.96             | 19.72            |                   |               |                |           |  |
| 20              | HQAM       | 100     | 0         | 19.86            | 20.02             | 19.88            |                   |               |                |           |  |
| 20              | ZSOGAM     | 1       | 0         | 17.77            | 17.69             | 17.58            |                   |               |                |           |  |
| 20              | ZSOGAM     | 1       | 40        | 17.77            | 17.69             | 17.57            | 19                | 2.1           |                |           |  |
| 20              | ZSOGAM     | 1       | 80        | 17.71            | 17.76             | 17.52            |                   |               |                |           |  |
| 20              | ZSOGAM     | 50      | 0         | 17.60            | 17.74             | 17.68            |                   |               |                |           |  |
| 20              | ZSOGAM     | 50      | 24        | 17.64            | 17.61             | 17.63            | 19                | 2.1           |                |           |  |
| 20              | ZSOGAM     | 100     | 0         | 17.57            | 17.45             | 17.63            |                   |               |                |           |  |
| Channel         |            |         |           |                  |                   |                  |                   |               |                |           |  |
| Frequency (MHz) |            |         |           |                  |                   |                  |                   |               |                |           |  |
| 15              | QPSK       | 1       | 0         | 19.73            | 19.86             | 19.51            |                   |               |                |           |  |
| 15              | QPSK       | 1       | 37        | 19.73            | 19.86             | 19.58            | 21                | 0             |                |           |  |
| 15              | QPSK       | 1       | 74        | 19.73            | 19.86             | 19.51            |                   |               |                |           |  |
| 15              | QPSK       | 38      | 20        | 19.85            | 19.93             | 19.84            | 21                | 0             |                |           |  |
| 15              | QPSK       | 38      | 59        | 19.85            | 19.94             | 19.59            |                   |               |                |           |  |
| 15              | QPSK       | 38      | 97        | 19.85            | 19.94             | 19.59            |                   |               |                |           |  |
| 15              | HQAM       | 1       | 0         | 19.68            | 19.75             | 19.72            |                   |               |                |           |  |
| 15              | HQAM       | 1       | 37        | 19.68            | 19.74             | 19.53            | 21                | 0             |                |           |  |
| 15              | HQAM       | 1       | 74        | 19.68            | 19.74             | 19.53            |                   |               |                |           |  |
| 15              | HQAM       | 38      | 20        | 19.75            | 19.83             | 19.72            | 21                | 0             |                |           |  |
| 15              | HQAM       | 38      | 59        | 19.75            | 19.83             | 19.72            |                   |               |                |           |  |
| 15              | HQAM       | 38      | 97        | 19.75            | 19.83             | 19.72            |                   |               |                |           |  |
| 15              | HQAM       | 75      | 0         | 19.86            | 19.91             | 19.83            |                   |               |                |           |  |
| 15              | HQAM       | 1       | 0         | 19.88            | 19.86             | 19.80            |                   |               |                |           |  |
| 15              | HQAM       | 1       | 37        | 19.88            | 19.76             | 19.86            | 21                | 0             |                |           |  |
| 15              | HQAM       | 1       | 74        | 19.88            | 19.76             | 19.86            |                   |               |                |           |  |
| 15              | HQAM       | 38      | 20        | 19.89            | 19.95             | 19.83            | 21                | 0             |                |           |  |
| 15              | HQAM       | 38      | 59        | 19.89            | 19.95             | 19.83            |                   |               |                |           |  |
| 15              | HQAM       | 38      | 97        | 19.89            | 19.95             | 19.83            |                   |               |                |           |  |
| 15              | HQAM       | 75      | 0         | 19.91            | 19.94             | 19.85            |                   |               |                |           |  |
| 15              | ZSOGAM     | 1       | 0         | 17.62            | 17.49             | 17.45            |                   |               |                |           |  |
| 15              | ZSOGAM     | 1       | 37        | 17.62            | 17.49             | 17.45            | 19                | 2.1           |                |           |  |
| 15              | ZSOGAM     | 1       | 74        | 17.78            | 17.78             | 17.78            |                   |               |                |           |  |
| 15              | ZSOGAM     | 38      | 0         | 17.45            | 17.57             | 17.57            |                   |               |                |           |  |
| 15              | ZSOGAM     | 38      | 20        | 17.52            | 17.45             | 17.47            | 19                | 2.1           |                |           |  |
| 15              | ZSOGAM     | 38      | 59        | 17.44            | 17.47             | 17.48            |                   |               |                |           |  |
| 15              | ZSOGAM     | 75      | 0         | 17.58            | 17.52             | 17.45            |                   |               |                |           |  |
| Channel         |            |         |           |                  |                   |                  |                   |               |                |           |  |
| Frequency (MHz) |            |         |           |                  |                   |                  |                   |               |                |           |  |
| 10              | QPSK       | 1       | 0         | 19.63            | 19.66             | 19.50            |                   |               |                |           |  |
| 10              | QPSK       | 1       | 25        | 19.62            | 19.65             | 19.58            | 21                | 0             |                |           |  |
| 10              | QPSK       | 1       | 40        | 19.65            | 19.70             | 19.70            |                   |               |                |           |  |
| 10              | QPSK       | 25      | 12        | 19.60            | 19.60             | 19.67            |                   |               |                |           |  |
| 10              | QPSK       | 25      | 25        | 19.64            | 19.68             | 19.68            | 21                | 0             |                |           |  |
| 10              | QPSK       | 50      | 0         | 19.79            | 19.86             | 19.81            |                   |               |                |           |  |
| 10              | HQAM       | 1       | 0         | 19.64            | 19.70             | 19.74            | 21                | 0             |                |           |  |
| 10              | HQAM       | 1       | 40        | 19.71            | 19.86             | 19.53            |                   |               |                |           |  |
| 10              | HQAM       | 1       | 80        | 19.78            | 19.85             | 19.82            |                   |               |                |           |  |
| 10              | HQAM       | 25      | 12        | 20.01            | 19.82             | 19.77            | 21                | 0             |                |           |  |
| 10              | HQAM       | 25      | 25        | 19.80            | 19.90             | 19.70            |                   |               |                |           |  |
| 10              | HQAM       | 50      | 0         | 19.83            | 19.93             | 19.87            |                   |               |                |           |  |
| 10              | HQAM       | 50      | 12        | 19.83            | 19.93             | 19.82            | 21                | 0             |                |           |  |
| 10              | HQAM       | 1       | 0         | 19.67            | 19.69             | 19.82            |                   |               |                |           |  |
| 10              | HQAM       | 1       | 40        | 19.67            | 19.65             | 19.67            |                   |               |                |           |  |
| 10              | HQAM       | 25      | 0         | 19.79            | 19.86             | 19.82            |                   |               |                |           |  |
| 10              | HQAM       | 25      | 12        | 19.83            | 19.93             | 19.87            | 21                | 0             |                |           |  |
| 10              | HQAM       | 25      | 25        | 19.87            | 19.71             | 19.71            |                   |               |                |           |  |
| 10              | HQAM       | 50      | 0         | 17.60            | 17.54             | 17.40            |                   |               |                |           |  |
| 10              | ZSOGAM     | 1       | 25        | 17.46            | 17.70             | 17.70            | 19                | 2.1           |                |           |  |
| 10              | ZSOGAM     | 1       | 40        | 17.74            | 17.56             | 17.56            |                   |               |                |           |  |
| 10              | ZSOGAM     | 25      | 12        | 17.61            | 17.59             | 17.58            | 19                | 2.1           |                |           |  |
| 10              | ZSOGAM     | 25      | 25        | 17.51            | 17.41             | 17.38            |                   |               |                |           |  |
| 10              | ZSOGAM     | 50      | 0         | 17.47            | 17.60             | 17.47            |                   |               |                |           |  |
| Channel         |            |         |           |                  |                   |                  |                   |               |                |           |  |
| Frequency (MHz) |            |         |           |                  |                   |                  |                   |               |                |           |  |
| 5               | QPSK       | 1       | 0         | 19.52            | 19.55             | 19.57            |                   |               |                |           |  |
| 5               | QPSK       | 1       | 4         | 19.57            | 19.66             | 19.70            | 21                | 0             |                |           |  |
| 5               | QPSK       | 1       | 8         | 19.60            | 19.62             | 19.64            |                   |               |                |           |  |
| 5               | QPSK       | 1       | 24        | 19.76            | 19.64             | 19.58            |                   |               |                |           |  |
| 5               | QPSK       | 12      | 0         | 19.76            | 19.65             | 19.63            |                   |               |                |           |  |
| 5               | QPSK       | 12      | 4         | 19.76            | 19.66             | 19.66            | 21                | 0             |                |           |  |
| 5               | QPSK       | 12      | 13        | 19.85            | 19.80             | 19.88            |                   |               |                |           |  |
| 5               | QPSK       | 28      | 0         | 19.86            | 19.94             | 19.88            |                   |               |                |           |  |
| 5               | HQAM       | 1       | 0         | 19.68            | 19.86             | 19.67            |                   |               |                |           |  |
| 5               | HQAM       | 1       | 8         | 19.70            | 19.89             | 19.75            | 21                | 0             |                |           |  |
| 5               | HQAM       | 1       | 24        | 19.74            | 19.67             | 19.64            |                   |               |                |           |  |
| 5               | HQAM       | 12      | 0         | 19.84            | 19.94             | 19.81            |                   |               |                |           |  |
| 5               | HQAM       | 12      | 4         | 19.81            | 19.82             | 19.84            | 21                | 0             |                |           |  |
| 5               | HQAM       | 12      | 13        | 19.88            | 19.91             | 19.73            |                   |               |                |           |  |
| 5               | HQAM       | 25      | 0         | 19.83            | 19.87             | 19.88            |                   |               |                |           |  |
| 5               | HQAM       | 25      | 4         | 19.87            | 19.76             | 19.76            | 21                | 0             |                |           |  |
| 5               | HQAM       | 1       | 0         | 19.69            | 19.89             | 19.84            |                   |               |                |           |  |
| 5               | HQAM       | 1       | 24        | 19.30            | 19.30             | 19.78            |                   |               |                |           |  |
| 5               | HQAM       | 12      | 0         | 19.97            | 19.96             | 19.96            |                   |               |                |           |  |
| 5               | HQAM       | 12      | 7         | 20.01            | 19.97             | 19.88            | 21                | 0             |                |           |  |
| 5               | HQAM       | 12      | 13        | 19.88            | 19.94             | 19.79            |                   |               |                |           |  |
| 5               | ZSOGAM     | 1       | 24        | 17.45            | 17.72             | 17.52            |                   |               |                |           |  |
| 5               | ZSOGAM     | 12      | 0         | 17.66            | 17.46             | 17.46            |                   |               |                |           |  |
| 5               | ZSOGAM     | 12      | 7         | 17.75            | 17.79             | 17.63            | 19                | 2.1           |                |           |  |
| 5               | ZSOGAM     | 12      | 13        | 17.70            | 17.57             | 17.49            |                   |               |                |           |  |
| 5               | ZSOGAM     | 25      | 0         | 17.44            | 17.52             | 17.43            |                   |               |                |           |  |
| Channel         |            |         |           |                  |                   |                  |                   |               |                |           |  |
| Frequency (MHz) |            |         |           |                  |                   |                  |                   |               |                |           |  |
| 3               | QPSK       | 1       | 0         | 19.67            | 19.81             | 19.51            |                   |               |                |           |  |
| 3               | QPSK       | 1       | 4         | 19.70            | 19.86             | 19.82            | 21                | 0             |                |           |  |
| 3               | QPSK       | 1       | 8         | 19.76            | 19.79             | 19.71            |                   |               |                |           |  |
| 3               | QPSK       | 8       | 0         | 19.80            | 19.97             | 19.81            |                   |               |                |           |  |
| 3               | QPSK       | 8       | 4         | 19.82            | 19.83             | 19.88            | 21                | 0             |                |           |  |
| 3               | HQAM       | 1       | 0         | 19.76            | 19.74             | 19.77            |                   |               |                |           |  |
| 3               | HQAM       | 1       | 8         | 19.88            | 19.90             | 19.78            | 21                | 0             |                |           |  |
| 3               | HQAM       | 1       | 14        | 19.80            | 19.86             | 19.85            |                   |               |                |           |  |
| 3               | HQAM       | 8       | 0         | 19.76            | 19.94             | 19.86            |                   |               |                |           |  |
| 3               | HQAM       | 8       | 4         | 19.82            | 19.86             | 19.81            | 21                | 0             |                |           |  |
| 3               | HQAM       | 18      | 0         | 19.90            | 19.90             | 19.85            |                   |               |                |           |  |
| 3               | HQAM       | 1       | 0         | 19.82            | 19.94             | 19.86            |                   |               |                |           |  |
| 3               | HQAM       | 1       | 14        | 19.80            | 19.76             | 19.84            | 21                | 0             |                |           |  |
| 3               | HQAM       | 1       | 24        | 19.80            | 19.77             | 19.75            |                   |               |                |           |  |
| 3               | HQAM       | 8       | 0         | 19.77            | 19.98             | 20.02            |                   |               |                |           |  |
| 3               | HQAM       | 8       | 7         | 19.99            | 19.99             | 19.99            | 21                | 0             |                |           |  |
| 3               | HQAM       | 18      | 0         | 19.85            | 19.88             | 19.87            |                   |               |                |           |  |
| 3               | ZSOGAM     | 1       | 0         | 17.72            | 17.58             | 17.57            |                   |               |                |           |  |
| 3               | ZSOGAM     | 1       | 14        | 17.69            | 17.76             | 17.69            | 19                | 2.1           |                |           |  |
| 3               | ZSOGAM     | 8       | 0         | 17.42            | 17.61             | 17.65            |                   |               |                |           |  |
| 3               | ZSOGAM     | 8       | 4         | 17.42            | 17.60             | 17.62            | 19                | 2.1           |                |           |  |
| 3               | ZSOGAM     | 18      | 0         | 17.59            | 17.54             | 17.47            |                   |               |                |           |  |
| 3               | ZSOGAM     | 18      | 4         | 17.76            | 17.68             | 17.68            |                   |               |                |           |  |
| 3               | ZSOGAM     | 18      | 7         | 17.61            | 17.48             | 17.50            | 19                | 2.1           |                |           |  |
| Channel         |            |         |           |                  |                   |                  |                   |               |                |           |  |
| Frequency (MHz) |            |         |           |                  |                   |                  |                   |               |                |           |  |
| 1.4             | QPSK       | 1       | 0         | 19.52            | 19.50             | 19.50            |                   |               |                |           |  |
| 1.4             | QPSK       | 1       | 3         | 19.63            | 19.60             | 19.67            |                   |               |                |           |  |
| 1.4             | QPSK       | 1       | 3         | 19.67            | 19.64             | 19.64            | 21                | 0             |                |           |  |
| 1.4             | QPSK       | 1       | 3         | 19.64            | 19.64             | 19.64            |                   |               |                |           |  |
| 1.4             | QPSK       | 3       | 0         | 19.91            | 19.94             | 19.87            |                   |               |                |           |  |
| 1.4             | QPSK       | 3       | 3         | 19.86            | 19.96             | 19.86            | 21                | 0             |                |           |  |
| 1.4             | QPSK       | 6       | 0         | 19.79            | 19.99             | 19.82            |                   |               |                |           |  |
| 1.4             | HQAM       | 1       | 0         | 19.83            | 19.83             | 19.73            |                   |               |                |           |  |
| 1.4             | HQAM       | 1       | 3         | 19.86            | 19.88             | 19.71            |                   |               |                |           |  |
| 1.4             | HQAM       | 1       | 6         | 19.85            | 19.82             | 19.81            | 21                | 0             |                |           |  |
| 1.4             | HQAM       | 6       | 0         | 19.89            | 19.90             | 19.86            | 21                | 0             |                |           |  |
| 1.4             | HQAM       | 3       | 0         | 19.90            | 19.95             | 19.86            |                   |               |                |           |  |
| 1.4             | HQAM       | 1       | 0         | 19.73            | 19.81             | 19.67            |                   |               |                |           |  |
| 1.4             | HQAM       | 1       | 3         | 19.85            | 19.88             | 19.88            | 21                | 0             |                |           |  |
| 1.4             | HQAM       | 1       | 6         | 19.77            | 19.83             | 19.73            |                   |               |                |           |  |
| 1.4             | HQAM       | 1       | 9         | 19.71            | 19.88             | 19.72            |                   |               |                |           |  |
| 1.4             | HQAM       | 3       | 0         | 19.89            | 19.81             | 19.81            |                   |               |                |           |  |
| 1.4             | HQAM       | 3       | 3         | 19.76            | 19.76             | 19.76            | 21                | 0             |                |           |  |
| 1.4             | HQAM       | 1       | 0         | 17.42            | 17.48             | 17.42            |                   |               |                |           |  |



| Band 5_Ant 0    |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------|-----------------------|---------------------|----------|---------------------|----------|--|--|--|--|--|--|
| DV (MHz)        | Modulation | RF Band | RF Offset | Power Low Ch / Freq. | Power High Ch / Freq. | Power High Ch / Freq. | Turn-on time (secs) | APR (dB) |                     |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           | 2650.0               | 2650.0                | 2650.0                |                     |          |                     |          |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.66                | 22.70                 | 22.68                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.66                | 22.70                 | 22.68                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 40        | 22.78                | 22.84                 | 22.81                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 22.81                | 22.71                 | 22.68                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.86                | 22.74                 | 22.69                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.86                | 22.74                 | 22.69                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.81                | 22.81                 | 22.97                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 1       | 0         | 22.82                | 22.82                 | 22.73                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 1       | 25        | 22.82                | 22.82                 | 22.82                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 10              | HQAM       | 1       | 40        | 22.78                | 22.82                 | 22.82                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 25      | 0         | 22.78                | 22.82                 | 22.80                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 25      | 12        | 22.74                | 22.84                 | 22.79                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 50      | 0         | 22.79                | 22.76                 | 22.74                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 10              | HQAM       | 50      | 0         | 22.80                | 22.80                 | 22.89                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 50      | 0         | 22.87                | 22.86                 | 22.89                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 50      | 0         | 22.88                | 22.85                 | 22.88                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 25      | 0         | 21.38                | 21.33                 | 21.41                 |                     |          | 23                  | 1        |  |  |  |  |  |  |
| 10              | HQAM       | 25      | 0         | 21.38                | 21.33                 | 21.41                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 25      | 25        | 21.44                | 21.35                 | 21.31                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | HQAM       | 50      | 0         | 21.48                | 21.47                 | 21.58                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 1       | 0         | 19.80                | 19.81                 | 19.86                 |                     |          | 21                  | 3        |  |  |  |  |  |  |
| 10              | DSSS       | 1       | 25        | 19.81                | 19.81                 | 19.86                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 35      | 0         | 19.78                | 19.78                 | 19.78                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 35      | 0         | 19.78                | 19.78                 | 19.78                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 25      | 12        | 19.78                | 19.78                 | 19.78                 |                     |          | 21                  | 3        |  |  |  |  |  |  |
| 10              | DSSS       | 25      | 12        | 19.78                | 19.78                 | 19.78                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 25      | 12        | 19.78                | 19.78                 | 19.78                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 25      | 12        | 19.78                | 19.78                 | 19.78                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 50      | 0         | 19.80                | 19.81                 | 19.76                 |                     |          | Turn-on time (secs) | APR (dB) |  |  |  |  |  |  |
| 10              | DSSS       | 50      | 0         | 19.80                | 19.81                 | 19.76                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 50      | 0         | 19.80                | 19.81                 | 19.76                 |                     |          |                     |          |  |  |  |  |  |  |
| 10              | DSSS       | 50      | 0         | 19.80                | 19.81                 | 19.76                 |                     |          |                     |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.73                | 22.71                 | 22.70                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.68                | 22.68                 | 22.68                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | QPSK       | 24      | 22.73     | 22.61                | 22.67                 |                       |                     |          |                     |          |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.68                | 22.68                 | 22.73                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.67                | 22.69                 | 22.73                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.48                | 22.34                 | 22.68                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | QPSK       | 25      | 8         | 22.68                | 22.67                 | 22.68                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 1       | 0         | 22.69                | 22.63                 | 22.65                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 1       | 12        | 22.61                | 22.64                 | 22.61                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 5               | HQAM       | 1       | 24        | 22.59                | 22.68                 | 22.69                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 5         | 22.68                | 22.63                 | 22.67                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 7         | 22.68                | 22.76                 | 22.62                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 13        | 22.63                | 22.75                 | 22.61                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 5               | HQAM       | 25      | 24        | 22.68                | 22.70                 | 22.68                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 5       | 0         | 22.68                | 22.62                 | 22.68                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 1       | 12        | 22.64                | 22.68                 | 22.77                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 7         | 22.68                | 22.63                 | 22.67                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 0         | 22.68                | 22.63                 | 22.67                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 0         | 22.68                | 22.63                 | 22.67                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 0         | 22.68                | 22.63                 | 22.67                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 7         | 21.20                | 21.20                 | 21.34                 |                     |          | 23                  | 1        |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 13        | 21.26                | 21.21                 | 21.48                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | HQAM       | 12      | 5         | 21.20                | 21.41                 | 21.30                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | DSSS       | 1       | 12        | 19.80                | 19.84                 | 19.87                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | DSSS       | 1       | 24        | 19.80                | 19.84                 | 19.87                 |                     |          | 21                  | 3        |  |  |  |  |  |  |
| 5               | DSSS       | 12      | 0         | 19.78                | 19.83                 | 19.88                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | DSSS       | 12      | 7         | 19.78                | 19.81                 | 19.85                 |                     |          |                     |          |  |  |  |  |  |  |
| 5               | DSSS       | 12      | 13        | 19.78                | 19.83                 | 19.78                 |                     |          |                     |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 22.67                | 22.69                 | 22.70                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 22.67                | 22.69                 | 22.70                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 22.68                | 22.69                 | 22.70                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.68                | 22.63                 | 22.68                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.68                | 22.66                 | 22.74                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.68                | 22.66                 | 22.74                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | QPSK       | 16      | 0         | 22.68                | 22.63                 | 22.70                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | QPSK       | 16      | 0         | 22.68                | 22.63                 | 22.70                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 1       | 8         | 22.67                | 22.68                 | 22.70                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 3               | HQAM       | 1       | 8         | 22.67                | 22.68                 | 22.70                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 1       | 14        | 22.68                | 22.65                 | 22.61                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 8       | 0         | 22.67                | 22.63                 | 22.67                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 8       | 4         | 22.67                | 22.63                 | 22.67                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 3               | HQAM       | 8       | 4         | 22.67                | 22.63                 | 22.67                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 8       | 4         | 22.67                | 22.63                 | 22.67                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 8       | 4         | 22.67                | 22.63                 | 22.67                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 15      | 0         | 21.20                | 21.26                 | 21.28                 |                     |          | 23                  | 1        |  |  |  |  |  |  |
| 3               | HQAM       | 15      | 0         | 21.23                | 21.41                 | 21.39                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 15      | 0         | 21.26                | 21.36                 | 21.48                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | HQAM       | 15      | 0         | 21.26                | 21.41                 | 21.36                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | DSSS       | 1       | 0         | 19.80                | 19.82                 | 19.88                 |                     |          | 21                  | 3        |  |  |  |  |  |  |
| 3               | DSSS       | 1       | 8         | 19.80                | 19.85                 | 19.90                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | DSSS       | 1       | 14        | 19.81                | 19.84                 | 19.87                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | DSSS       | 8       | 0         | 19.80                | 19.78                 | 19.78                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | DSSS       | 8       | 4         | 19.78                | 19.73                 | 19.85                 |                     |          | Turn-on time (secs) | APR (dB) |  |  |  |  |  |  |
| 3               | DSSS       | 8       | 4         | 19.78                | 19.73                 | 19.85                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | DSSS       | 8       | 4         | 19.78                | 19.73                 | 19.85                 |                     |          |                     |          |  |  |  |  |  |  |
| 3               | DSSS       | 8       | 4         | 19.78                | 19.73                 | 19.85                 |                     |          |                     |          |  |  |  |  |  |  |
| Channel         |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.63                | 22.66                 | 22.62                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.67                | 22.62                 | 22.62                 |                     |          |                     |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.70                | 22.63                 | 22.64                 |                     |          |                     |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 5       | 0         | 22.68                | 22.55                 | 22.75                 |                     |          |                     |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 5       | 1         | 22.68                | 22.58                 | 22.61                 |                     |          | 24                  | 0        |  |  |  |  |  |  |
| 1.4             | QPSK       | 5       | 1         | 22.68                | 22.58                 | 22.61                 |                     |          |                     |          |  |  |  |  |  |  |
| 1.4             | QPSK       | 5       | 1         | 22.68                | 22.58                 | 22.61                 |                     |          |                     |          |  |  |  |  |  |  |
|                 |            |         |           |                      |                       |                       |                     |          |                     |          |  |  |  |  |  |  |



| Band 12_Ant 0   |            |         |           |                       |                          |                        |               |          |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------|----------|--|--|--|
| DV (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Turn-up (dBm) | MVR (dB) |  |  |  |
| Channel         |            |         |           |                       |                          |                        |               |          |  |  |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |               |          |  |  |  |
|                 |            |         |           | 23950                 | 23955                    | 23955                  |               |          |  |  |  |
|                 |            |         |           | 764                   | 767.5                    | 771                    |               |          |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.94                 | 22.94                    | 22.93                  |               |          |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.92                 | 22.92                    | 22.92                  | 24            | 0        |  |  |  |
| 10              | QPSK       | 1       | 49        | 22.90                 | 22.90                    | 22.90                  |               |          |  |  |  |
| 10              | QPSK       | 35      | 0         | 23.00                 | 22.92                    | 22.80                  |               |          |  |  |  |
| 10              | QPSK       | 35      | 12        | 22.92                 | 22.84                    | 22.80                  | 24            | 0        |  |  |  |
| 10              | QPSK       | 35      | 25        | 22.90                 | 22.90                    | 22.90                  |               |          |  |  |  |
| 10              | QPSK       | 35      | 49        | 22.88                 | 22.88                    | 22.88                  |               |          |  |  |  |
| 10              | HQAM       | 1       | 0         | 23.12                 | 23.10                    | 23.10                  |               |          |  |  |  |
| 10              | HQAM       | 1       | 25        | 23.10                 | 23.14                    | 23.00                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 1       | 49        | 22.97                 | 23.04                    | 22.85                  |               |          |  |  |  |
| 10              | HQAM       | 35      | 0         | 23.02                 | 23.00                    | 23.02                  |               |          |  |  |  |
| 10              | HQAM       | 35      | 12        | 23.04                 | 22.96                    | 23.00                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 35      | 25        | 22.99                 | 22.99                    | 22.99                  |               |          |  |  |  |
| 10              | HQAM       | 35      | 49        | 22.97                 | 22.94                    | 22.98                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 0         | 23.04                 | 23.08                    | 23.07                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 25        | 23.00                 | 23.00                    | 23.00                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 49        | 22.98                 | 22.98                    | 22.98                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 75        | 22.96                 | 22.96                    | 22.96                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 100       | 22.94                 | 22.94                    | 22.94                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 125       | 22.92                 | 22.92                    | 22.92                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 150       | 22.90                 | 22.90                    | 22.90                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 175       | 22.88                 | 22.88                    | 22.88                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 200       | 22.86                 | 22.86                    | 22.86                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 225       | 22.84                 | 22.84                    | 22.84                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 250       | 22.82                 | 22.82                    | 22.82                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 275       | 22.80                 | 22.80                    | 22.80                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 300       | 22.78                 | 22.78                    | 22.78                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 325       | 22.76                 | 22.76                    | 22.76                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 350       | 22.74                 | 22.74                    | 22.74                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 375       | 22.72                 | 22.72                    | 22.72                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 400       | 22.70                 | 22.70                    | 22.70                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 425       | 22.68                 | 22.68                    | 22.68                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 450       | 22.66                 | 22.66                    | 22.66                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 475       | 22.64                 | 22.64                    | 22.64                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 500       | 22.62                 | 22.62                    | 22.62                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 525       | 22.60                 | 22.60                    | 22.60                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 550       | 22.58                 | 22.58                    | 22.58                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 575       | 22.56                 | 22.56                    | 22.56                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 600       | 22.54                 | 22.54                    | 22.54                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 625       | 22.52                 | 22.52                    | 22.52                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 650       | 22.50                 | 22.50                    | 22.50                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 675       | 22.48                 | 22.48                    | 22.48                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 700       | 22.46                 | 22.46                    | 22.46                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 725       | 22.44                 | 22.44                    | 22.44                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 750       | 22.42                 | 22.42                    | 22.42                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 775       | 22.40                 | 22.40                    | 22.40                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 800       | 22.38                 | 22.38                    | 22.38                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 825       | 22.36                 | 22.36                    | 22.36                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 850       | 22.34                 | 22.34                    | 22.34                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 875       | 22.32                 | 22.32                    | 22.32                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 900       | 22.30                 | 22.30                    | 22.30                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 925       | 22.28                 | 22.28                    | 22.28                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 950       | 22.26                 | 22.26                    | 22.26                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 975       | 22.24                 | 22.24                    | 22.24                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1000      | 22.22                 | 22.22                    | 22.22                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1025      | 22.20                 | 22.20                    | 22.20                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1050      | 22.18                 | 22.18                    | 22.18                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1075      | 22.16                 | 22.16                    | 22.16                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1100      | 22.14                 | 22.14                    | 22.14                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1125      | 22.12                 | 22.12                    | 22.12                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1150      | 22.10                 | 22.10                    | 22.10                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1175      | 22.08                 | 22.08                    | 22.08                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1200      | 22.06                 | 22.06                    | 22.06                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1225      | 22.04                 | 22.04                    | 22.04                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1250      | 22.02                 | 22.02                    | 22.02                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1275      | 22.00                 | 22.00                    | 22.00                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1300      | 21.98                 | 21.98                    | 21.98                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1325      | 21.96                 | 21.96                    | 21.96                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1350      | 21.94                 | 21.94                    | 21.94                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1375      | 21.92                 | 21.92                    | 21.92                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1400      | 21.90                 | 21.90                    | 21.90                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1425      | 21.88                 | 21.88                    | 21.88                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1450      | 21.86                 | 21.86                    | 21.86                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1475      | 21.84                 | 21.84                    | 21.84                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1500      | 21.82                 | 21.82                    | 21.82                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1525      | 21.80                 | 21.80                    | 21.80                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1550      | 21.78                 | 21.78                    | 21.78                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1575      | 21.76                 | 21.76                    | 21.76                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1600      | 21.74                 | 21.74                    | 21.74                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1625      | 21.72                 | 21.72                    | 21.72                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1650      | 21.70                 | 21.70                    | 21.70                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1675      | 21.68                 | 21.68                    | 21.68                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1700      | 21.66                 | 21.66                    | 21.66                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1725      | 21.64                 | 21.64                    | 21.64                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1750      | 21.62                 | 21.62                    | 21.62                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1775      | 21.60                 | 21.60                    | 21.60                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1800      | 21.58                 | 21.58                    | 21.58                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1825      | 21.56                 | 21.56                    | 21.56                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1850      | 21.54                 | 21.54                    | 21.54                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1875      | 21.52                 | 21.52                    | 21.52                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1900      | 21.50                 | 21.50                    | 21.50                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1925      | 21.48                 | 21.48                    | 21.48                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 1950      | 21.46                 | 21.46                    | 21.46                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 1975      | 21.44                 | 21.44                    | 21.44                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2000      | 21.42                 | 21.42                    | 21.42                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2025      | 21.40                 | 21.40                    | 21.40                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2050      | 21.38                 | 21.38                    | 21.38                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2075      | 21.36                 | 21.36                    | 21.36                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2100      | 21.34                 | 21.34                    | 21.34                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2125      | 21.32                 | 21.32                    | 21.32                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2150      | 21.30                 | 21.30                    | 21.30                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2175      | 21.28                 | 21.28                    | 21.28                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2200      | 21.26                 | 21.26                    | 21.26                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2225      | 21.24                 | 21.24                    | 21.24                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2250      | 21.22                 | 21.22                    | 21.22                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2275      | 21.20                 | 21.20                    | 21.20                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2300      | 21.18                 | 21.18                    | 21.18                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2325      | 21.16                 | 21.16                    | 21.16                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2350      | 21.14                 | 21.14                    | 21.14                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2375      | 21.12                 | 21.12                    | 21.12                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2400      | 21.10                 | 21.10                    | 21.10                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2425      | 21.08                 | 21.08                    | 21.08                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2450      | 21.06                 | 21.06                    | 21.06                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2475      | 21.04                 | 21.04                    | 21.04                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2500      | 21.02                 | 21.02                    | 21.02                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2525      | 21.00                 | 21.00                    | 21.00                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2550      | 20.98                 | 20.98                    | 20.98                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2575      | 20.96                 | 20.96                    | 20.96                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2600      | 20.94                 | 20.94                    | 20.94                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2625      | 20.92                 | 20.92                    | 20.92                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2650      | 20.90                 | 20.90                    | 20.90                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2675      | 20.88                 | 20.88                    | 20.88                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2700      | 20.86                 | 20.86                    | 20.86                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2725      | 20.84                 | 20.84                    | 20.84                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2750      | 20.82                 | 20.82                    | 20.82                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2775      | 20.80                 | 20.80                    | 20.80                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2800      | 20.78                 | 20.78                    | 20.78                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2825      | 20.76                 | 20.76                    | 20.76                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2850      | 20.74                 | 20.74                    | 20.74                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2875      | 20.72                 | 20.72                    | 20.72                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2900      | 20.70                 | 20.70                    | 20.70                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2925      | 20.68                 | 20.68                    | 20.68                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 2950      | 20.66                 | 20.66                    | 20.66                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 2975      | 20.64                 | 20.64                    | 20.64                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 3000      | 20.62                 | 20.62                    | 20.62                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 3025      | 20.60                 | 20.60                    | 20.60                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 3050      | 20.58                 | 20.58                    | 20.58                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 3075      | 20.56                 | 20.56                    | 20.56                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 3100      | 20.54                 | 20.54                    | 20.54                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 3125      | 20.52                 | 20.52                    | 20.52                  |               |          |  |  |  |
| 10              | HQAM       | 50      | 3150      | 20.50                 | 20.50                    | 20.50                  | 24            | 0        |  |  |  |
| 10              | HQAM       | 50      | 3175      | 20.48                 | 20.48                    | 20.48                  |               |          |  |  |  |
| 10              | HQAM       | 50      |           |                       |                          |                        |               |          |  |  |  |

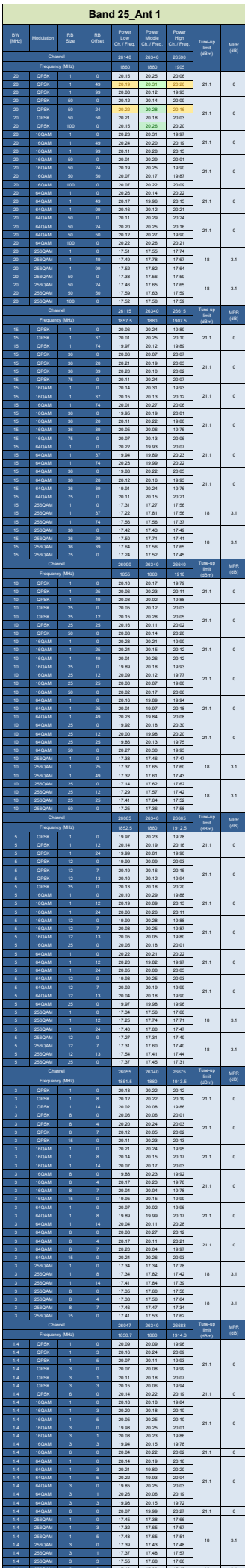
| Band 12_Ant 1     |            |         |           |                   |                   |                    |               |          |  |  |  |
|-------------------|------------|---------|-----------|-------------------|-------------------|--------------------|---------------|----------|--|--|--|
| DV (MHz)          | Modulation | RB Size | RB Offset | Power Low Ch. (W) | Power Mid Ch. (W) | Power High Ch. (W) | Turn-on (dBm) | MVR (dB) |  |  |  |
| Channel           |            |         |           |                   |                   |                    |               |          |  |  |  |
| Frequency (MHz)   |            |         |           |                   |                   |                    |               |          |  |  |  |
| 23950 23955 23955 |            |         |           |                   |                   |                    |               |          |  |  |  |
| 10                | QPSK       | 1       | 0         | 75.4              | 75.5              | 75.1               |               |          |  |  |  |
| 10                | QPSK       | 1       | 0         | 22.72             | 22.59             | 22.81              |               |          |  |  |  |
| 10                | QPSK       | 1       | 25        | 22.72             | 22.59             | 22.81              | 24            | 0        |  |  |  |
| 10                | QPSK       | 1       | 49        | 22.76             | 22.50             | 22.86              |               |          |  |  |  |
| 10                | QPSK       | 25      | 0         | 22.68             | 22.52             | 22.70              |               |          |  |  |  |
| 10                | QPSK       | 25      | 12        | 22.68             | 22.52             | 22.70              |               |          |  |  |  |
| 10                | QPSK       | 25      | 25        | 22.74             | 22.52             | 22.88              | 24            | 0        |  |  |  |
| 10                | QPSK       | 35      | 0         | 22.72             | 22.57             | 22.74              |               |          |  |  |  |
| 10                | HQAM       | 1       | 0         | 22.76             | 22.53             | 22.70              |               |          |  |  |  |
| 10                | HQAM       | 1       | 25        | 22.74             | 22.50             | 22.76              | 24            | 0        |  |  |  |
| 10                | HQAM       | 1       | 49        | 22.72             | 22.57             | 22.77              |               |          |  |  |  |
| 10                | HQAM       | 25      | 0         | 22.69             | 22.56             | 22.76              |               |          |  |  |  |
| 10                | HQAM       | 25      | 12        | 22.74             | 22.56             | 22.76              |               |          |  |  |  |
| 10                | HQAM       | 25      | 25        | 22.72             | 22.54             | 22.74              | 24            | 0        |  |  |  |
| 10                | HQAM       | 35      | 0         | 22.60             | 22.45             | 22.75              |               |          |  |  |  |
| 10                | HQAM       | 35      | 12        | 22.74             | 22.47             | 22.75              | 24            | 0        |  |  |  |
| 10                | HQAM       | 35      | 25        | 22.76             | 22.47             | 22.75              |               |          |  |  |  |
| 10                | HQAM       | 50      | 0         | 22.72             | 22.55             | 22.66              |               |          |  |  |  |
| 10                | HQAM       | 1       | 0         | 22.60             | 22.45             | 22.75              |               |          |  |  |  |
| 10                | HQAM       | 1       | 25        | 22.74             | 22.47             | 22.75              | 24            | 0        |  |  |  |
| 10                | HQAM       | 1       | 49        | 22.76             | 22.47             | 22.76              |               |          |  |  |  |
| 10                | HQAM       | 25      | 0         | 22.67             | 22.50             | 22.81              |               |          |  |  |  |
| 10                | HQAM       | 25      | 12        | 22.74             | 22.50             | 22.81              |               |          |  |  |  |
| 10                | HQAM       | 25      | 25        | 22.81             | 22.48             | 22.13              | 23            | 1        |  |  |  |
| 10                | HQAM       | 50      | 0         | 22.11             | 22.23             | 22.88              |               |          |  |  |  |
| 10                | HQAM       | 1       | 0         | 19.80             | 20.02             | 19.82              |               |          |  |  |  |
| 10                | HQAM       | 1       | 25        | 20.02             | 19.82             | 20.12              | 21            | 3        |  |  |  |
| 10                | HQAM       | 1       | 49        | 20.16             | 19.86             | 20.15              |               |          |  |  |  |
| 10                | HQAM       | 25      | 0         | 19.85             | 19.81             | 20.03              |               |          |  |  |  |
| 10                | HQAM       | 25      | 12        | 19.88             | 19.87             | 19.87              |               |          |  |  |  |
| 10                | HQAM       | 25      | 25        | 19.90             | 20.03             | 20.08              | 21            | 3        |  |  |  |
| 10                | HQAM       | 50      | 0         | 19.87             | 19.98             | 19.84              |               |          |  |  |  |
| Channel           |            |         |           |                   |                   |                    |               |          |  |  |  |
| Frequency (MHz)   |            |         |           |                   |                   |                    |               |          |  |  |  |
| 23956 23960 23960 |            |         |           |                   |                   |                    |               |          |  |  |  |
| 5                 | QPSK       | 1       | 0         | 22.60             | 22.47             | 22.74              |               |          |  |  |  |
| 5                 | QPSK       | 1       | 12        | 22.71             | 22.79             | 22.81              | 24            | 0        |  |  |  |
| 5                 | QPSK       | 1       | 24        | 22.66             | 22.81             | 22.73              |               |          |  |  |  |
| 5                 | QPSK       | 1       | 36        | 22.72             | 22.79             | 22.78              |               |          |  |  |  |
| 5                 | QPSK       | 12      | 7         | 22.63             | 22.73             | 22.83              |               |          |  |  |  |
| 5                 | QPSK       | 12      | 13        | 22.65             | 22.86             | 22.80              |               |          |  |  |  |
| 5                 | QPSK       | 12      | 19        | 22.67             | 22.80             | 22.80              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 0         | 22.63             | 22.46             | 22.57              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 12        | 22.47             | 22.85             | 22.82              | 24            | 0        |  |  |  |
| 5                 | HQAM       | 1       | 24        | 22.38             | 22.49             | 22.83              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 3         | 22.68             | 22.79             | 22.82              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 7         | 22.68             | 22.88             | 22.80              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 13        | 22.81             | 22.56             | 22.50              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 19        | 22.81             | 22.56             | 22.50              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 0         | 22.69             | 22.32             | 22.50              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 12        | 22.68             | 22.36             | 22.71              | 24            | 0        |  |  |  |
| 5                 | HQAM       | 1       | 24        | 22.68             | 22.36             | 22.71              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 3         | 22.15             | 22.57             | 21.86              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 7         | 22.21             | 22.67             | 22.13              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 13        | 21.67             | 22.26             | 22.03              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 19        | 21.67             | 22.26             | 22.03              | 22            | 0        |  |  |  |
| 5                 | HQAM       | 1       | 0         | 19.97             | 19.76             | 19.73              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 12        | 20.05             | 20.04             | 19.87              | 21            | 3        |  |  |  |
| 5                 | HQAM       | 1       | 24        | 19.84             | 20.04             | 19.84              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 3         | 19.82             | 19.84             | 19.77              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 7         | 19.82             | 19.84             | 19.77              | 21            | 3        |  |  |  |
| 5                 | HQAM       | 12      | 13        | 19.84             | 19.84             | 19.80              |               |          |  |  |  |
| 5                 | HQAM       | 12      | 19        | 19.76             | 19.84             | 19.80              |               |          |  |  |  |
| Channel           |            |         |           |                   |                   |                    |               |          |  |  |  |
| Frequency (MHz)   |            |         |           |                   |                   |                    |               |          |  |  |  |
| 750.5 751.4 751.5 |            |         |           |                   |                   |                    |               |          |  |  |  |
| 5                 | QPSK       | 1       | 0         | 22.80             | 22.63             | 22.77              |               |          |  |  |  |
| 5                 | QPSK       | 1       | 25        | 22.72             | 22.69             | 22.79              | 24            | 0        |  |  |  |
| 5                 | QPSK       | 1       | 14        | 22.79             | 22.64             | 22.91              |               |          |  |  |  |
| 5                 | QPSK       | 8       | 0         | 22.53             | 22.73             | 22.63              |               |          |  |  |  |
| 5                 | QPSK       | 8       | 7         | 22.74             | 22.69             | 22.86              |               |          |  |  |  |
| 5                 | QPSK       | 8       | 7         | 22.74             | 22.69             | 22.86              |               |          |  |  |  |
| 5                 | QPSK       | 16      | 0         | 22.53             | 22.87             | 22.71              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 0         | 22.57             | 22.59             | 22.56              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 25        | 22.62             | 22.83             | 22.83              | 24            | 0        |  |  |  |
| 5                 | HQAM       | 1       | 14        | 22.47             | 22.83             | 22.81              |               |          |  |  |  |
| 5                 | HQAM       | 8       | 0         | 22.74             | 22.68             | 22.81              |               |          |  |  |  |
| 5                 | HQAM       | 8       | 7         | 22.75             | 22.65             | 22.86              |               |          |  |  |  |
| 5                 | HQAM       | 8       | 7         | 22.59             | 22.49             | 22.88              |               |          |  |  |  |
| 5                 | HQAM       | 16      | 0         | 22.72             | 22.59             | 22.88              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 0         | 22.76             | 22.46             | 22.81              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 25        | 22.74             | 22.46             | 22.81              | 24            | 0        |  |  |  |
| 5                 | HQAM       | 1       | 14        | 22.76             | 22.69             | 22.82              |               |          |  |  |  |
| 5                 | HQAM       | 8       | 0         | 22.15             | 21.96             | 21.81              |               |          |  |  |  |
| 5                 | HQAM       | 8       | 7         | 22.17             | 21.96             | 21.81              |               |          |  |  |  |
| 5                 | HQAM       | 8       | 7         | 21.69             | 21.91             | 21.85              | 21            | 3        |  |  |  |
| 5                 | HQAM       | 16      | 0         | 21.90             | 21.97             | 21.82              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 0         | 20.04             | 20.11             | 19.96              |               |          |  |  |  |
| 5                 | HQAM       | 1       | 14        | 20.06             | 20.06             | 20.02              | 21            | 3        |  |  |  |
| 5                 | HQAM       | 8       | 0         | 19.82             | 19.80             | 19.82              |               |          |  |  |  |
| 5                 | HQAM       | 8       | 7         | 19.82             | 19.80             | 19.82              |               |          |  |  |  |
| 5                 | HQAM       | 8       | 7         | 19.81             | 19.82             | 19.87              | 19            | 3        |  |  |  |
| 5                 | HQAM       | 16      | 0         | 19.83             | 19.86             | 19.84              |               |          |  |  |  |
| Channel           |            |         |           |                   |                   |                    |               |          |  |  |  |
| Frequency (MHz)   |            |         |           |                   |                   |                    |               |          |  |  |  |
| 23971 23975 23975 |            |         |           |                   |                   |                    |               |          |  |  |  |
| 1.4               | QPSK       | 1       | 0         | 22.70             | 22.40             | 22.59              |               |          |  |  |  |
| 1.4               | QPSK       | 1       | 0         | 22.72             | 22.73             | 22.69              |               |          |  |  |  |
| 1.4               | QPSK       | 1       | 25        | 22.81             | 22.69             | 22.81              | 24            | 0        |  |  |  |
| 1.4               | QPSK       | 3       | 0         | 22.72             | 22.71             | 22.70              |               |          |  |  |  |
| 1.4               | QPSK       | 3       | 1         | 22.54             | 22.76             | 22.70              |               |          |  |  |  |
| 1.4               | QPSK       | 3       | 3         | 22.62             | 22.81             | 22.72              |               |          |  |  |  |
| 1.4               | QPSK       | 3       | 25        | 22.72             | 22.72             | 22.81              | 24            | 0        |  |  |  |
| 1.4               | HQAM       | 1       | 0         | 22.71             | 22.68             | 22.57              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 3         | 22.64             | 22.76             | 22.63              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 25        | 22.74             | 22.76             | 22.63              | 24            | 0        |  |  |  |
| 1.4               | HQAM       | 3       | 1         | 22.69             | 22.59             | 22.66              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 1         | 22.79             | 22.72             | 22.80              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 1         | 22.80             | 22.72             | 22.70              | 24            | 0        |  |  |  |
| 1.4               | HQAM       | 3       | 25        | 22.80             | 22.72             | 22.80              |               |          |  |  |  |
| 1.4               | HQAM       | 1       | 0         | 22.64             | 22.41             | 22.81              |               |          |  |  |  |
| 1.4               | HQAM       | 1       | 3         | 22.59             | 22.87             | 22.84              |               |          |  |  |  |
| 1.4               | HQAM       | 1       | 25        | 22.76             | 22.87             | 22.84              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 0         | 22.70             | 22.57             | 22.58              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 1         | 22.62             | 22.84             | 22.73              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 1         | 22.43             | 22.82             | 22.83              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 25        | 22.58             | 21.86             | 21.86              | 23            | 1        |  |  |  |
| 1.4               | HQAM       | 1       | 0         | 19.80             | 19.86             | 19.84              |               |          |  |  |  |
| 1.4               | HQAM       | 1       | 3         | 19.84             | 20.03             | 19.77              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 0         | 19.72             | 19.76             | 19.77              | 21            | 3        |  |  |  |
| 1.4               | HQAM       | 3       | 1         | 19.83             | 19.84             | 19.75              |               |          |  |  |  |
| 1.4               | HQAM       | 3       | 25        | 19.75             | 19.75             | 19.84              | 21            | 3        |  |  |  |



| Band 14_Ant 0   |            |         |           |                    |                     |                     |                    |          |  |
|-----------------|------------|---------|-----------|--------------------|---------------------|---------------------|--------------------|----------|--|
| DV (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq | Power High Ch. Freq | Power High Ch. Freq | Turn-on time (dBm) | MPN (dB) |  |
| Channel         |            |         |           |                    |                     |                     |                    |          |  |
| 23335           |            |         |           |                    |                     |                     |                    |          |  |
| Frequency (MHz) |            |         |           |                    |                     |                     |                    |          |  |
| 10              | QPSK       | 1       | 0         | 22.85              |                     |                     |                    |          |  |
| 10              | QPSK       | 1       | 25        | 22.82              |                     |                     | 24                 | 0        |  |
| 10              | QPSK       | 1       | 49        | 22.71              |                     |                     |                    |          |  |
| 10              | QPSK       | 25      | 0         | 22.80              |                     |                     |                    |          |  |
| 10              | QPSK       | 25      | 12        | 22.80              |                     |                     | 24                 | 0        |  |
| 10              | QPSK       | 25      | 25        | 22.87              |                     |                     |                    |          |  |
| 10              | QPSK       | 50      | 0         | 22.78              |                     |                     |                    |          |  |
| 10              | HQAM       | 1       | 0         | 20.08              |                     |                     |                    |          |  |
| 10              | HQAM       | 1       | 25        | 22.79              |                     |                     | 24                 | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.03              |                     |                     |                    |          |  |
| 10              | HQAM       | 25      | 0         | 22.36              |                     |                     |                    |          |  |
| 10              | HQAM       | 25      | 12        | 22.77              |                     |                     | 24                 | 0        |  |
| 10              | HQAM       | 25      | 25        | 22.74              |                     |                     |                    |          |  |
| 10              | HQAM       | 50      | 0         | 22.50              |                     |                     |                    |          |  |
| 10              | HQAM       | 1       | 0         | 22.71              |                     |                     |                    |          |  |
| 10              | HQAM       | 1       | 25        | 22.72              |                     |                     | 24                 | 0        |  |
| 10              | HQAM       | 1       | 49        | 22.04              |                     |                     |                    |          |  |
| 10              | HQAM       | 25      | 0         | 21.86              |                     |                     |                    |          |  |
| 10              | HQAM       | 25      | 12        | 21.87              |                     |                     | 23                 | 1        |  |
| 10              | HQAM       | 25      | 25        | 21.75              |                     |                     |                    |          |  |
| 10              | HQAM       | 50      | 0         | 21.77              |                     |                     |                    |          |  |
| 10              | DSSSFM     | 1       | 0         | 19.70              |                     |                     |                    |          |  |
| 10              | DSSSFM     | 1       | 25        | 19.88              |                     |                     | 21                 | 3        |  |
| 10              | DSSSFM     | 1       | 49        | 19.85              |                     |                     |                    |          |  |
| 10              | DSSSFM     | 25      | 0         | 19.78              |                     |                     |                    |          |  |
| 10              | DSSSFM     | 25      | 12        | 19.72              |                     |                     | 21                 | 3        |  |
| 10              | DSSSFM     | 25      | 25        | 19.88              |                     |                     |                    |          |  |
| 10              | DSSSFM     | 50      | 0         | 19.83              |                     |                     |                    |          |  |
| Channel         |            |         |           |                    |                     |                     |                    |          |  |
| 23355           |            |         |           |                    |                     |                     |                    |          |  |
| 23355           |            |         |           |                    |                     |                     |                    |          |  |
| Frequency (MHz) |            |         |           |                    |                     |                     |                    |          |  |
| 5               | QPSK       | 1       | 0         | 22.40              | 22.86               | 22.90               |                    |          |  |
| 5               | QPSK       | 1       | 12        | 22.75              | 22.86               | 22.81               | 24                 | 0        |  |
| 5               | QPSK       | 1       | 24        | 22.67              | 22.68               | 22.44               |                    |          |  |
| 5               | QPSK       | 12      | 0         | 22.64              | 22.52               | 22.80               |                    |          |  |
| 5               | QPSK       | 12      | 7         | 22.60              | 22.60               | 22.77               | 24                 | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.58              | 22.48               | 22.86               |                    |          |  |
| 5               | QPSK       | 24      | 0         | 22.70              | 22.79               | 22.89               |                    |          |  |
| 5               | HQAM       | 1       | 0         | 22.67              | 22.46               | 22.37               |                    |          |  |
| 5               | HQAM       | 1       | 12        | 22.54              | 22.60               | 22.34               | 24                 | 0        |  |
| 5               | HQAM       | 24      | 0         | 22.56              | 22.67               | 22.58               |                    |          |  |
| 5               | HQAM       | 12      | 0         | 22.36              | 22.45               | 22.44               |                    |          |  |
| 5               | HQAM       | 12      | 7         | 22.68              | 22.78               | 22.76               | 24                 | 0        |  |
| 5               | HQAM       | 12      | 13        | 22.60              | 22.76               | 22.68               |                    |          |  |
| 5               | HQAM       | 24      | 0         | 22.47              | 22.29               | 22.52               |                    |          |  |
| 5               | HQAM       | 1       | 0         | 22.50              | 22.74               | 22.54               |                    |          |  |
| 5               | HQAM       | 1       | 12        | 22.70              | 22.47               | 22.52               | 24                 | 0        |  |
| 5               | HQAM       | 1       | 24        | 22.70              | 22.46               | 22.54               |                    |          |  |
| 5               | HQAM       | 12      | 0         | 21.80              | 21.47               | 21.84               |                    |          |  |
| 5               | HQAM       | 12      | 7         | 21.68              | 21.87               | 21.81               | 23                 | 1        |  |
| 5               | HQAM       | 12      | 13        | 21.84              | 21.70               | 21.83               |                    |          |  |
| 5               | HQAM       | 24      | 0         | 21.84              | 21.81               | 21.50               |                    |          |  |
| 5               | DSSSFM     | 1       | 0         | 19.86              | 19.76               | 19.55               |                    |          |  |
| 5               | DSSSFM     | 1       | 12        | 19.71              | 19.71               | 19.76               | 21                 | 3        |  |
| 5               | DSSSFM     | 1       | 24        | 19.86              | 19.81               | 19.85               |                    |          |  |
| 5               | DSSSFM     | 12      | 0         | 19.78              | 19.87               | 19.78               |                    |          |  |
| 5               | DSSSFM     | 12      | 7         | 19.85              | 19.87               | 19.89               | 21                 | 3        |  |
| 5               | DSSSFM     | 12      | 13        | 19.86              | 19.28               | 19.83               |                    |          |  |
| 5               | DSSSFM     | 24      | 0         | 19.75              | 19.82               | 19.76               |                    |          |  |

| Band 14_Ant 1     |            |         |           |                      |                      |                      |                    |          |  |
|-------------------|------------|---------|-----------|----------------------|----------------------|----------------------|--------------------|----------|--|
| DV (MHz)          | Modulation | RB Size | RB Offset | Power Level Ch. Freq | Power Level Ch. Freq | Power Level Ch. Freq | Turn-on time (dBm) | MPN (dB) |  |
| Channel           |            |         |           |                      |                      |                      |                    |          |  |
| 23355             |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)   |            |         |           |                      |                      |                      |                    |          |  |
| 10                | QPSK       | 1       | 0         | 22.45                |                      |                      |                    |          |  |
| 10                | QPSK       | 1       | 25        | 22.50                |                      | 24                   | 0                  |          |  |
| 10                | QPSK       | 1       | 49        | 22.47                |                      |                      |                    |          |  |
| 10                | QPSK       | 25      | 0         | 22.39                |                      |                      |                    |          |  |
| 10                | QPSK       | 25      | 12        | 22.50                |                      | 24                   | 0                  |          |  |
| 10                | QPSK       | 25      | 25        | 22.42                |                      |                      |                    |          |  |
| 10                | QPSK       | 50      | 0         | 22.47                |                      |                      |                    |          |  |
| 10                | HQAM       | 1       | 0         | 20.46                |                      | 24                   | 0                  |          |  |
| 10                | HQAM       | 1       | 25        | 22.35                |                      |                      |                    |          |  |
| 10                | HQAM       | 1       | 49        | 22.37                |                      |                      |                    |          |  |
| 10                | HQAM       | 25      | 0         | 22.21                |                      |                      |                    |          |  |
| 10                | HQAM       | 25      | 12        | 22.29                |                      | 24                   | 0                  |          |  |
| 10                | HQAM       | 25      | 25        | 22.28                |                      |                      |                    |          |  |
| 10                | HQAM       | 50      | 0         | 22.47                |                      |                      |                    |          |  |
| 10                | HQAM       | 1       | 0         | 22.30                |                      |                      |                    |          |  |
| 10                | HQAM       | 1       | 25        | 22.28                |                      | 24                   | 0                  |          |  |
| 10                | HQAM       | 1       | 49        | 22.09                |                      |                      |                    |          |  |
| 10                | HQAM       | 25      | 0         | 20.04                |                      |                      |                    |          |  |
| 10                | HQAM       | 25      | 12        | 21.97                |                      | 23                   | 1                  |          |  |
| 10                | HQAM       | 25      | 25        | 21.50                |                      |                      |                    |          |  |
| 10                | HQAM       | 50      | 0         | 22.14                |                      |                      |                    |          |  |
| 10                | DSSSFM     | 1       | 0         | 19.74                |                      |                      |                    |          |  |
| 10                | DSSSFM     | 1       | 25        | 19.83                |                      | 21                   | 3                  |          |  |
| 10                | DSSSFM     | 1       | 49        | 19.89                |                      |                      |                    |          |  |
| 10                | DSSSFM     | 25      | 0         | 19.75                |                      |                      |                    |          |  |
| 10                | DSSSFM     | 25      | 12        | 19.88                |                      | 21                   | 3                  |          |  |
| 10                | DSSSFM     | 25      | 25        | 19.78                |                      |                      |                    |          |  |
| 10                | DSSSFM     | 50      | 0         | 19.79                |                      |                      |                    |          |  |
| Channel           |            |         |           |                      |                      |                      |                    |          |  |
| 23355 23355 23355 |            |         |           |                      |                      |                      |                    |          |  |
| Frequency (MHz)   |            |         |           |                      |                      |                      |                    |          |  |
| 5                 | QPSK       | 1       | 0         | 22.46                | 22.81                | 22.90                |                    |          |  |
| 5                 | QPSK       | 1       | 12        | 22.61                | 22.42                | 22.43                | 24                 | 0        |  |
| 5                 | QPSK       | 1       | 24        | 22.47                | 22.34                | 22.24                |                    |          |  |
| 5                 | QPSK       | 12      | 0         | 22.42                | 22.23                | 22.45                |                    |          |  |
| 5                 | QPSK       | 12      | 7         | 22.45                | 22.43                | 22.48                | 24                 | 0        |  |
| 5                 | QPSK       | 12      | 13        | 22.28                | 22.39                | 22.47                |                    |          |  |
| 5                 | QPSK       | 24      | 0         | 22.43                | 22.37                | 22.38                |                    |          |  |
| 5                 | HQAM       | 1       | 0         | 22.32                | 22.43                | 22.48                |                    |          |  |
| 5                 | HQAM       | 1       | 12        | 22.40                | 22.34                | 22.22                | 24                 | 0        |  |
| 5                 | HQAM       | 1       | 24        | 22.26                | 22.40                | 22.29                |                    |          |  |
| 5                 | HQAM       | 12      | 0         | 22.18                | 22.19                | 22.17                |                    |          |  |
| 5                 | HQAM       | 12      | 7         | 22.68                | 22.28                | 22.35                | 24                 | 0        |  |
| 5                 | HQAM       | 12      | 13        | 22.26                | 22.08                | 22.12                |                    |          |  |
| 5                 | HQAM       | 24      | 0         | 22.30                | 22.45                | 22.25                |                    |          |  |
| 5                 | HQAM       | 1       | 0         | 22.38                | 22.38                | 22.37                |                    |          |  |
| 5                 | HQAM       | 1       | 12        | 22.52                | 22.05                | 22.22                | 24                 | 0        |  |
| 5                 | HQAM       | 1       | 24        | 22.46                | 22.47                | 22.43                |                    |          |  |
| 5                 | HQAM       | 12      | 0         | 22.08                | 21.99                | 21.87                |                    |          |  |
| 5                 | HQAM       | 12      | 7         | 21.50                | 21.79                | 21.75                | 23                 | 1        |  |
| 5                 | HQAM       | 12      | 13        | 21.84                | 21.70                | 21.85                |                    |          |  |
| 5                 | HQAM       | 24      | 0         | 21.86                | 22.01                | 21.86                |                    |          |  |
| 5                 | DSSSFM     | 1       | 0         | 19.72                | 19.59                | 19.55                |                    |          |  |
| 5                 | DSSSFM     | 1       | 12        | 19.70                | 19.74                | 19.81                | 21                 | 3        |  |
| 5                 | DSSSFM     | 1       | 24        | 19.80                | 19.76                | 19.84                |                    |          |  |
| 5                 | DSSSFM     | 12      | 0         | 19.88                | 19.74                | 19.75                |                    |          |  |
| 5                 | DSSSFM     | 12      | 7         | 19.85                | 19.82                | 19.78                | 21                 | 3        |  |
| 5                 | DSSSFM     | 12      | 13        | 19.74                | 19.76                | 19.87                |                    |          |  |
| 5                 | DSSSFM     | 24      | 0         | 19.78                | 19.79                | 19.76                |                    |          |  |

| Band 17_Ant 0   |            |         |           |                     |                      |                      |                          |          |  |
|-----------------|------------|---------|-----------|---------------------|----------------------|----------------------|--------------------------|----------|--|
| DV (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. | Power High Ch. Freq. | Power High Ch. Freq. | Turn-on and offset (dBm) | MPN (dB) |  |
| Channel         |            |         |           |                     |                      |                      |                          |          |  |
| Frequency (MHz) |            |         |           | 23765               | 23766                | 23860                |                          |          |  |
| 5               | QPSK       | 1       | 0         | 22.85               | 22.86                | 22.91                |                          |          |  |
| 5               | QPSK       | 1       | 12        | 23.14               | 23.14                | 22.85                | 24                       | 0        |  |
| 5               | QPSK       | 1       | 49        | 22.93               | 23.00                | 22.97                |                          |          |  |
| 5               | QPSK       | 25      | 0         | 22.79               | 22.80                | 22.88                |                          |          |  |
| 5               | QPSK       | 25      | 12        | 23.07               | 23.19                | 23.01                | 24                       | 0        |  |
| 5               | QPSK       | 25      | 25        | 22.87               | 22.88                | 22.86                |                          |          |  |
| 5               | QPSK       | 50      | 0         | 23.05               | 23.10                | 22.93                |                          |          |  |
| 5               | HQAM       | 1       | 0         | 20.06               | 20.09                | 20.01                | 24                       | 0        |  |
| 5               | HQAM       | 1       | 25        | 22.97               | 23.15                | 22.97                | 24                       | 0        |  |
| 5               | HQAM       | 1       | 49        | 22.87               | 22.90                | 22.86                |                          |          |  |
| 5               | HQAM       | 25      | 0         | 23.12               | 23.16                | 22.96                |                          |          |  |
| 5               | HQAM       | 25      | 12        | 23.00               | 23.14                | 22.72                | 24                       | 0        |  |
| 5               | HQAM       | 25      | 25        | 22.96               | 22.98                | 22.86                |                          |          |  |
| 5               | HQAM       | 50      | 0         | 22.92               | 23.15                | 22.98                |                          |          |  |
| 5               | HQAM       | 1       | 0         | 22.80               | 22.82                | 22.85                |                          |          |  |
| 5               | HQAM       | 1       | 25        | 22.84               | 23.02                | 22.80                | 24                       | 0        |  |
| 5               | HQAM       | 1       | 49        | 22.97               | 22.94                | 22.71                |                          |          |  |
| 5               | HQAM       | 25      | 0         | 21.46               | 21.93                | 21.44                |                          |          |  |
| 5               | HQAM       | 25      | 12        | 21.58               | 21.60                | 21.44                | 23                       | 1        |  |
| 5               | HQAM       | 25      | 25        | 21.40               | 21.74                | 21.40                |                          |          |  |
| 5               | HQAM       | 50      | 0         | 21.30               | 21.87                | 21.48                |                          |          |  |
| 5               | DSSSFM     | 1       | 0         | 19.87               | 19.89                | 19.88                |                          |          |  |
| 5               | DSSSFM     | 1       | 25        | 19.94               | 20.19                | 20.18                | 21                       | 3        |  |
| 5               | DSSSFM     | 1       | 49        | 19.98               | 20.09                | 19.98                |                          |          |  |
| 5               | DSSSFM     | 25      | 0         | 19.96               | 20.00                | 20.00                |                          |          |  |
| 5               | DSSSFM     | 25      | 12        | 19.94               | 19.80                | 19.83                | 21                       | 3        |  |
| 5               | DSSSFM     | 25      | 25        | 19.95               | 20.06                | 19.95                |                          |          |  |
| 5               | DSSSFM     | 50      | 0         | 19.71               | 19.79                | 19.77                |                          |          |  |
| Channel         |            |         |           |                     |                      |                      |                          |          |  |
| Frequency (MHz) |            |         |           | 23765               | 23766                | 23860                |                          |          |  |
| 5               | QPSK       | 1       | 0         | 22.85               | 22.86                | 22.91                |                          |          |  |
| 5               | QPSK       | 1       | 12        | 23.14               | 23.14                | 22.85                | 24                       | 0        |  |
| 5               | QPSK       | 1       | 24        | 22.94               | 23.13                | 22.83                |                          |          |  |
| 5               | QPSK       | 12      | 0         | 22.79               | 22.93                | 22.83                |                          |          |  |
| 5               | QPSK       | 12      | 7         | 22.79               | 23.10                | 22.84                | 24                       | 0        |  |
| 5               | QPSK       | 12      | 13        | 22.79               | 22.84                | 22.84                |                          |          |  |
| 5               | QPSK       | 24      | 0         | 22.87               | 23.08                | 22.86                |                          |          |  |
| 5               | HQAM       | 1       | 0         | 22.98               | 23.00                | 23.05                |                          |          |  |
| 5               | HQAM       | 1       | 12        | 22.78               | 22.94                | 23.04                | 24                       | 0        |  |
| 5               | HQAM       | 1       | 24        | 22.78               | 22.85                | 22.88                |                          |          |  |
| 5               | HQAM       | 12      | 0         | 23.12               | 23.03                | 22.88                |                          |          |  |
| 5               | HQAM       | 12      | 7         | 23.02               | 23.03                | 22.94                | 24                       | 0        |  |
| 5               | HQAM       | 12      | 13        | 23.02               | 23.03                | 22.94                |                          |          |  |
| 5               | HQAM       | 24      | 0         | 22.87               | 22.89                | 23.01                |                          |          |  |
| 5               | HQAM       | 1       | 0         | 22.53               | 22.83                | 22.82                | 24                       | 0        |  |
| 5               | HQAM       | 1       | 12        | 22.53               | 22.83                | 22.82                |                          |          |  |
| 5               | HQAM       | 1       | 24        | 22.65               | 22.73                | 22.50                |                          |          |  |
| 5               | HQAM       | 12      | 0         | 21.19               | 21.49                | 21.25                |                          |          |  |
| 5               | HQAM       | 12      | 7         | 21.23               | 21.48                | 21.23                | 23                       | 1        |  |
| 5               | HQAM       | 12      | 13        | 21.23               | 21.48                | 21.23                |                          |          |  |
| 5               | HQAM       | 24      | 0         | 21.23               | 21.33                | 21.27                |                          |          |  |
| 5               | DSSSFM     | 1       | 0         | 19.81               | 19.88                | 19.88                |                          |          |  |
| 5               | DSSSFM     | 1       | 12        | 19.73               | 19.82                | 19.88                | 21                       | 3        |  |
| 5               | DSSSFM     | 1       | 24        | 19.90               | 19.92                | 19.83                |                          |          |  |
| 5               | DSSSFM     | 12      | 0         | 19.86               | 19.83                | 19.83                |                          |          |  |
| 5               | DSSSFM     | 25      | 0         | 19.71               | 19.78                | 19.77                |                          |          |  |



| Band 25, Ant 2  |               |         |           |                   |                   |                                                        |                   |          |                   |          |  |
|-----------------|---------------|---------|-----------|-------------------|-------------------|--------------------------------------------------------|-------------------|----------|-------------------|----------|--|
| BSF (MHz)       | RB Modulation | RB Size | RB Offset | Power Level (dBm) | Power Level (dBm) | Power Level (dBm)                                      | Turn-on time (ms) | RBs (dB) |                   |          |  |
| Channel         |               |         |           |                   |                   |                                                        |                   |          |                   |          |  |
| Frequency (MHz) |               |         |           | 1800              | 2040              | 2600                                                   |                   |          |                   |          |  |
| 25              | QPSK          | 1       | 0         | 22.49             | 22.02             | 22.42                                                  |                   |          |                   |          |  |
| 25              | QPSK          | 1       | 49        | 22.49             | 22.02             | 22.42                                                  |                   |          | 23.4              | 0        |  |
| 25              | QPSK          | 80      | 0         | 22.38             | 22.02             | 22.38                                                  |                   |          |                   |          |  |
| 25              | QPSK          | 80      | 24        | 22.38             | 22.02             | 22.38                                                  |                   |          | 23.4              | 0        |  |
| 25              | QPSK          | 160     | 0         | 22.47             | 22.02             | 22.47                                                  |                   |          |                   |          |  |
| 25              | QPSK          | 160     | 8         | 22.47             | 22.02             | 22.47                                                  |                   |          |                   |          |  |
| 25              | 16QAM         | 1       | 0         | 22.57             | 22.02             | 22.51                                                  |                   |          |                   |          |  |
| 25              | 16QAM         | 1       | 49        | 22.57             | 22.02             | 22.51                                                  |                   |          | 23.4              | 0        |  |
| 25              | 16QAM         | 80      | 0         | 22.44             | 22.02             | 22.44                                                  |                   |          |                   |          |  |
| 25              | 16QAM         | 80      | 24        | 22.44             | 22.02             | 22.44                                                  |                   |          | 23.4              | 0        |  |
| 25              | 16QAM         | 160     | 0         | 22.47             | 22.02             | 22.54                                                  |                   |          |                   |          |  |
| 25              | 16QAM         | 160     | 8         | 22.47             | 22.02             | 22.54                                                  |                   |          |                   |          |  |
| 25              | 64QAM         | 1       | 0         | 22.53             | 22.02             | 22.57                                                  |                   |          |                   |          |  |
| 25              | 64QAM         | 1       | 49        | 22.53             | 22.02             | 22.57                                                  |                   |          | 23.4              | 0        |  |
| 25              | 64QAM         | 80      | 0         | 22.41             | 22.02             | 22.41                                                  |                   |          |                   |          |  |
| 25              | 64QAM         | 80      | 24        | 22.41             | 22.02             | 22.41                                                  |                   |          |                   |          |  |
| 25              | 64QAM         | 160     | 0         | 22.50             | 22.02             | 22.50                                                  |                   |          |                   |          |  |
| 25              | 64QAM         | 160     | 8         | 22.50             | 22.02             | 22.50                                                  |                   |          |                   |          |  |
| 25              | 256QAM        | 1       | 0         | 21.58             | 21.78             | 21.78                                                  |                   |          |                   |          |  |
| 25              | 256QAM        | 1       | 49        | 21.58             | 21.78             | 21.78                                                  |                   |          | 23                | 0.4      |  |
| 25              | 256QAM        | 80      | 0         | 21.65             | 21.90             | 21.90                                                  |                   |          |                   |          |  |
| 25              | 256QAM        | 80      | 24        | 21.65             | 21.90             | 21.90                                                  |                   |          |                   |          |  |
| 25              | 256QAM        | 160     | 0         | 21.70             | 21.90             | 21.90                                                  |                   |          |                   |          |  |
| 25              | 256QAM        | 160     | 8         | 21.70             | 21.90             | 21.90                                                  |                   |          |                   |          |  |
| 25              | 256QAM        | 1       | 0         | 18.79             | 18.89             | 18.89                                                  |                   |          |                   |          |  |
| 25              | 256QAM        | 1       | 49        | 18.79             | 18.89             | 18.89                                                  |                   |          | Turn-on time (ms) | RBs (dB) |  |
| Channel         |               |         |           |                   |                   |                                                        |                   |          |                   |          |  |
| Frequency (MHz) |               |         |           | 2600              | 2604              | 2605                                                   |                   |          |                   |          |  |
| 15              | QPSK          | 1       | 0         | 22.21             | 22.09             | 22.41                                                  |                   |          |                   |          |  |
| 15              | QPSK          | 1       | 37        | 22.50             | 22.04             | 22.48                                                  |                   |          | 23.4              | 0        |  |
| 15              | QPSK          | 1       | 74        | 22.44             | 22.09             | 22.48                                                  |                   |          |                   |          |  |
| 15              | QPSK          | 1       | 111       | 22.34             | 22.09             | 22.48                                                  |                   |          |                   |          |  |
| 15              | QPSK          | 80      | 0         | 22.52             | 22.08             | 22.57                                                  |                   |          |                   |          |  |
| 15              | QPSK          | 80      | 39        | 22.43             | 22.08             | 22.57                                                  |                   |          | 23.4              | 0        |  |
| 15              | QPSK          | 160     | 0         | 22.47             | 22.09             | 22.56                                                  |                   |          |                   |          |  |
| 15              | QPSK          | 160     | 79        | 22.38             | 22.09             | 22.56                                                  |                   |          |                   |          |  |
| 15              | 16QAM         | 1       | 0         | 22.57             | 22.51             | 22.47                                                  |                   |          |                   |          |  |
| 15              | 16QAM         | 1       | 37        | 22.50             | 22.49             | 22.50                                                  |                   |          | 23.4              | 0        |  |
| 15              | 16QAM         | 1       | 74        | 22.44             | 22.50             | 22.49                                                  |                   |          |                   |          |  |
| 15              | 16QAM         | 1       | 111       | 22.34             | 22.50             | 22.49                                                  |                   |          |                   |          |  |
| 15              | 16QAM         | 80      | 0         | 22.58             | 22.09             | 22.48                                                  |                   |          |                   |          |  |
| 15              | 16QAM         | 80      | 39        | 22.48             | 22.09             | 22.48                                                  |                   |          | 23.4              | 0        |  |
| 15              | 16QAM         | 160     | 0         | 22.48             | 22.09             | 22.48                                                  |                   |          |                   |          |  |
| 15              | 16QAM         | 160     | 79        | 22.38             | 22.09             | 22.48                                                  |                   |          |                   |          |  |
| 15              | 64QAM         | 1       | 0         | 22.47             | 22.54             | 22.58                                                  |                   |          |                   |          |  |
| 15              | 64QAM         | 1       | 37        | 22.54             | 22.58             | 22.58                                                  |                   |          | 23.4              | 0        |  |
| 15              | 64QAM         | 1       | 74        | 22.44             | 22.58             | 22.58                                                  |                   |          |                   |          |  |
| 15              | 64QAM         | 1       | 111       | 22.34             | 22.58             | 22.58                                                  |                   |          |                   |          |  |
| 15              | 64QAM         | 80      | 0         | 22.53             | 22.09             | 22.50                                                  |                   |          |                   |          |  |
| 15              | 64QAM         | 80      | 39        | 22.43             | 22.09             | 22.50                                                  |                   |          | 23.4              | 0        |  |
| 15              | 64QAM         | 160     | 0         | 22.48             | 22.54             | 22.57                                                  |                   |          |                   |          |  |
| 15              | 64QAM         | 160     | 79        | 22.38             | 22.54             | 22.57                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 1       | 0         | 21.58             | 21.78             | 21.80                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 1       | 37        | 21.78             | 21.80             | 21.81                                                  |                   |          | 23                | 0.4      |  |
| 15              | 256QAM        | 80      | 0         | 21.68             | 21.80             | 21.81                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 80      | 39        | 21.68             | 21.80             | 21.81                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 160     | 0         | 21.73             | 21.80             | 21.82                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 160     | 79        | 21.73             | 21.80             | 21.82                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 1       | 0         | 18.54             | 18.93             | 18.93                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 1       | 37        | 18.54             | 18.93             | 18.93                                                  |                   |          | 23                | 0.4      |  |
| 15              | 256QAM        | 80      | 0         | 18.59             | 18.93             | 18.93                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 80      | 39        | 18.59             | 18.93             | 18.93                                                  |                   |          | 23.4              | 0        |  |
| 15              | 256QAM        | 160     | 0         | 18.64             | 18.93             | 18.93                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 160     | 79        | 18.64             | 18.93             | 18.93                                                  |                   |          |                   |          |  |
| 15              | 256QAM        | 1       | 0         | 16.08             | 18.74             | 18.83                                                  |                   |          | Turn-on time (ms) | RBs (dB) |  |
| Channel         |               |         |           |                   |                   |                                                        |                   |          |                   |          |  |
| Frequency (MHz) |               |         |           | 1800              | 1802              | 1810 <th></th> <th></th> <th></th> <th></th> <th></th> |                   |          |                   |          |  |
| 5               | QPSK          | 1       | 0         | 22.42             | 22.01             | 22.31                                                  |                   |          |                   |          |  |
| 5               | QPSK          | 1       | 12        | 22.49             | 22.02             | 22.38                                                  |                   |          | 23.4              | 0        |  |
| 5               | QPSK          | 1       | 25        | 22.50             | 22.02             | 22.38                                                  |                   |          |                   |          |  |
| 5               | QPSK          | 1       | 49        | 22.54             | 22.02             | 22.45                                                  |                   |          |                   |          |  |
| 5               | QPSK          | 80      | 0         | 22.35             | 22.02             | 22.41                                                  |                   |          |                   |          |  |
| 5               | QPSK          | 80      | 12        | 22.42             | 22.02             | 22.41                                                  |                   |          | 23.4              | 0        |  |
| 5               | QPSK          | 25      | 0         | 22.43             | 22.02             | 22.53                                                  |                   |          |                   |          |  |
| 5               | QPSK          | 25      | 12        | 22.42             | 22.02             | 22.53                                                  |                   |          |                   |          |  |
| 5               | 16QAM         | 1       | 0         | 22.57             | 22.51             | 22.47                                                  |                   |          |                   |          |  |
| 5               | 16QAM         | 1       | 49        | 22.48             | 22.51             | 22.52                                                  |                   |          | 23.4              | 0        |  |
| 5               | 16QAM         | 25      | 0         | 22.22             | 22.02             | 22.45                                                  |                   |          |                   |          |  |
| 5               | 16QAM         | 25      | 12        | 22.40             | 22.02             | 22.45                                                  |                   |          | 23.4              | 0        |  |
| 5               | 16QAM         | 80      | 0         | 22.39             | 22.02             | 22.49                                                  |                   |          |                   |          |  |
| 5               | 16QAM         | 80      | 12        | 22.39             | 22.02             | 22.49                                                  |                   |          |                   |          |  |
| 5               | 64QAM         | 1       | 0         | 22.57             | 22.51             | 22.51                                                  |                   |          |                   |          |  |
| 5               | 64QAM         | 1       | 49        | 22.37             | 22.58             | 22.53                                                  |                   |          | 23                | 0.4      |  |
| 5               | 64QAM         | 25      | 0         | 22.30             | 22.58             | 22.53                                                  |                   |          |                   |          |  |
| 5               | 64QAM         | 25      | 12        | 22.40             | 22.58             | 22.53                                                  |                   |          |                   |          |  |
| 5               | 256QAM        | 1       | 0         | 21.66             | 21.81             | 21.89                                                  |                   |          |                   |          |  |
| 5               | 256QAM        | 1       | 49        | 18.58             | 18.94             | 18.79                                                  |                   |          | 23                | 0.4      |  |
| 5               | 256QAM        | 25      | 0         | 18.54             | 18.94             | 18.80                                                  |                   |          |                   |          |  |
| 5               | 256QAM        | 25      | 12        | 18.60             | 18.97             | 18.90                                                  |                   |          | 23                | 0.4      |  |
| 5               | 256QAM        | 80      | 0         | 18.71             | 18.96             | 18.90                                                  |                   |          |                   |          |  |
| Channel         |               |         |           |                   |                   |                                                        |                   |          |                   |          |  |
| Frequency (MHz) |               |         |           | 1800              | 1802              | 1810                                                   |                   |          |                   |          |  |
| 3               | QPSK          | 1       | 0         | 22.41             | 22.03             | 22.46                                                  |                   |          |                   |          |  |
| 3               | QPSK          | 1       | 8         | 22.48             | 22.03             | 22.48                                                  |                   |          | 23.4              | 0        |  |
| 3               | QPSK          | 1       | 16        | 22.50             | 22.04             | 22.50                                                  |                   |          |                   |          |  |
| 3               | QPSK          | 8       | 0         | 22.52             | 22.02             | 22.52                                                  |                   |          |                   |          |  |
| 3               | QPSK          | 8       | 8         | 22.52             | 22.02             | 22.52                                                  |                   |          | 23.4              | 0        |  |
| 3               | QPSK          | 8       | 7         | 22.50             | 22.01             | 22.27                                                  |                   |          |                   |          |  |
| 3               | 16QAM         | 1       | 0         | 22.57             | 22.51             | 22.47                                                  |                   |          |                   |          |  |
| 3               | 16QAM         | 1       | 8         | 22.47             | 22.51             | 22.58                                                  |                   |          | 23.4              | 0        |  |
| 3               | 16QAM         | 1       | 16        | 22.43             | 22.52             | 22.58                                                  |                   |          |                   |          |  |
| 3               | 16QAM         | 8       | 0         | 22.30             | 22.49             | 22.58                                                  |                   |          |                   |          |  |
| 3               | 16QAM         | 8       | 8         | 22.49             | 22.61             | 22.51                                                  |                   |          | 23.4              | 0        |  |
| 3               | 16QAM         | 8       | 7         | 22.31             | 22.60             | 22.26                                                  |                   |          |                   |          |  |
| 3               | 16QAM         | 8       | 16        | 22.41             | 22.49             | 22.51                                                  |                   |          |                   |          |  |
| 3               | 64QAM         | 1       | 0         | 22.51             | 22.63             | 22.50                                                  |                   |          |                   |          |  |
| 3               | 64QAM         | 1       | 8         | 22.31             | 22.63             | 22.58                                                  |                   |          | 23.4              | 0        |  |
| 3               | 64QAM         | 1       | 16        | 22.30             | 22.63             | 22.58                                                  |                   |          |                   |          |  |
| 3               | 64QAM         | 8       | 0         | 21.58             | 21.83             | 21.76                                                  |                   |          |                   |          |  |
| 3               | 64QAM         | 8       | 8         | 21.58             | 21.83             | 21.76                                                  |                   |          | 23                | 0.4      |  |
| 3               | 64QAM         | 8       | 7         | 21.60             | 21.70             | 21.52                                                  |                   |          |                   |          |  |
| 3               | 64QAM         | 16      | 0         | 21.49             | 21.83             | 21.47                                                  |                   |          |                   |          |  |
| 3               | 256QAM        | 1       | 0         | 18.00             | 18.88             | 18.88                                                  |                   |          |                   |          |  |
| 3               | 256QAM        | 1       | 8         | 18.72             | 18.98             | 18.90                                                  |                   |          | 23                | 0.4      |  |
| 3               | 256QAM        | 1       | 16        | 18.00             | 18.88             | 18.88                                                  |                   |          |                   |          |  |
| 3               | 256QAM        | 8       | 0         | 18.70             | 18.77             | 18.80                                                  |                   |          |                   |          |  |
| 3               | 256QAM        | 8       | 8         | 18.59             | 18.98             | 18.90                                                  |                   |          | 23                | 0.4      |  |
| 3               | 256QAM        | 8       | 7         | 18.59             | 18.98             | 18.90                                                  |                   |          |                   |          |  |
| 3               | 256QAM        | 16      | 0         | 18.78             | 18.98             | 18.90                                                  |                   |          |                   |          |  |
| Channel         |               |         |           |                   |                   |                                                        |                   |          |                   |          |  |
| Frequency (MHz) |               |         |           | 1800              | 1802              | 1810                                                   |                   |          |                   |          |  |
| 1.4             | QPSK          | 1       | 0         | 22.30             | 22.05             | 22.40                                                  |                   |          |                   |          |  |
| 1.4             | QPSK          | 1       | 0         | 22.30             | 22.05             | 22.40                                                  |                   |          | 23.4              | 0        |  |
| 1.4             | QPSK          | 1       | 5         | 22.43             | 22.02             | 22.44                                                  |                   |          |                   |          |  |
| 1.4             | QPSK          | 3       | 0         | 22.34             | 22.02             | 22.39                                                  |                   |          |                   |          |  |
| 1.4             | QPSK          | 3       | 0         | 22.34             | 22.02             | 22.39                                                  |                   |          | 23.4              | 0        |  |
| 1.4             | QPSK          | 3       | 3         | 22.41             | 22.03             | 22.27                                                  |                   |          |                   |          |  |
| 1.4             | QPSK          | 3       | 3         | 22.41             | 22.03             | 22.27                                                  |                   |          | 23.4              | 0        |  |
| 1.4             | 16QAM         | 1       | 0         | 22.59             | 22.59             | 22.59                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 1       | 0         | 22.59             | 22.59             | 22.59                                                  |                   |          | 23.4              | 0        |  |
| 1.4             | 16QAM         | 1       | 5         | 22.35             | 22.32             | 22.32                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 1       | 5         | 22.35             | 22.32             | 22.32                                                  |                   |          | 23.4              | 0        |  |
| 1.4             | 16QAM         | 3       | 0         | 22.30             | 22.35             | 22.44                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 3       | 0         | 22.30             | 22.35             | 22.44                                                  |                   |          | 23.4              | 0        |  |
| 1.4             | 16QAM         | 3       | 3         | 22.40             | 22.32             | 22.32                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 3       | 3         | 22.40             | 22.32             | 22.38                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 1       | 0         | 22.39             | 22.30             | 22.24                                                  |                   |          | 23                | 0.4      |  |
| 1.4             | 16QAM         | 1       | 0         | 22.39             | 22.30             | 22.24                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 3       | 0         | 22.31             | 22.34             | 22.23                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 3       | 0         | 22.31             | 22.34             | 22.23                                                  |                   |          | 23                | 0.4      |  |
| 1.4             | 16QAM         | 1       | 3         | 18.51             | 18.74             | 18.80                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 1       | 3         | 18.72             | 18.82             | 18.90                                                  |                   |          | 23                | 0.4      |  |
| 1.4             | 16QAM         | 1       | 3         | 18.72             | 18.82             | 18.90                                                  |                   |          |                   |          |  |
| 1.4             | 16QAM         | 3       | 0         | 18.59             | 18.98             | 18.90                                                  |                   |          |                   |          |  |
| 1.4             | 256QAM        | 3       | 1         | 18.72             | 18.98             | 18.92                                                  |                   |          |                   |          |  |
| 1.4             | 256QAM        | 3       | 1         | 18.72             | 18.98             | 18.92                                                  |                   |          |                   |          |  |
| 1.4             | 256QAM        | 3       | 3         | 18.68             | 18.70             | 18.82                                                  |                   |          |                   |          |  |

| Band 26(FCC)_Ant 0 |            |      |        |       |       |       |       |         |       |       |       |       |
|--------------------|------------|------|--------|-------|-------|-------|-------|---------|-------|-------|-------|-------|
| Ref                | Modulation | Size | IS     | Power | Power | Power | Power | Turn-on | APN   |       |       |       |
| (dBm)              |            |      | Offset | (Fwd) | (Fwd) | (Fwd) | (Fwd) | (dBm)   | (dBm) |       |       |       |
| Channel            |            |      |        | 26T55 | 26M55 | 26T55 | 26M55 |         |       |       |       |       |
| Frequency (MHz)    |            |      |        |       |       |       |       |         |       | 26T55 | 26M55 | 26T55 |
| 16                 | QPSK       | 1    | 0      | 22.93 | 22.86 | 22.85 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 37     | 22.93 | 22.87 | 22.86 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 74     | 22.96 | 22.87 | 22.82 |       |         |       |       |       |       |
| 16                 | QPSK       | 36   | 0      | 22.91 | 22.82 | 22.84 |       |         |       |       |       |       |
| 16                 | QPSK       | 36   | 20     | 22.92 | 22.87 | 22.82 |       |         |       |       |       |       |
| 16                 | QPSK       | 36   | 38     | 22.92 | 22.81 | 22.82 |       |         |       |       |       |       |
| 16                 | QPSK       | 75   | 0      | 22.98 | 22.85 | 22.85 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.86 | 22.59 | 22.57 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 37     | 22.79 | 22.76 | 22.76 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 74     | 22.82 | 22.52 | 22.54 |       |         |       |       |       |       |
| 16                 | 16QAM      | 36   | 0      | 22.84 | 22.78 | 22.81 |       |         |       |       |       |       |
| 16                 | 16QAM      | 36   | 20     | 22.86 | 22.78 | 22.77 |       |         |       |       |       |       |
| 16                 | 16QAM      | 36   | 38     | 22.96 | 22.82 | 22.72 |       |         |       |       |       |       |
| 16                 | 16QAM      | 75   | 0      | 23.00 | 22.85 | 22.78 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.68 | 22.57 | 22.58 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 37     | 22.70 | 22.76 | 22.76 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 74     | 22.74 | 22.74 | 22.64 |       |         |       |       |       |       |
| 16                 | 16QAM      | 36   | 0      | 21.53 | 21.64 | 21.75 |       |         |       |       |       |       |
| 16                 | 16QAM      | 36   | 20     | 21.52 | 21.66 | 21.68 |       |         |       |       |       |       |
| 16                 | 16QAM      | 36   | 38     | 21.62 | 21.62 | 21.64 |       |         |       |       |       |       |
| 16                 | 16QAM      | 75   | 0      | 21.62 | 21.51 | 21.66 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 0      | 19.41 | 18.59 | 18.64 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 37     | 19.65 | 18.78 | 18.80 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 74     | 19.58 | 18.66 | 18.67 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 36   | 0      | 18.64 | 18.05 | 18.22 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 36   | 20     | 18.60 | 18.07 | 18.08 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 36   | 38     | 19.43 | 18.53 | 18.53 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 75   | 0      | 18.30 | 18.09 | 18.13 |       |         |       |       |       |       |
| Channel            |            |      |        |       |       |       |       |         |       | 26M55 | 26M55 | 26M55 |
| Frequency (MHz)    |            |      |        |       |       |       |       |         |       | 26T55 | 26M55 | 26M55 |
| 16                 | QPSK       | 1    | 0      | 22.79 | 22.68 | 22.77 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 37     | 22.98 | 22.87 | 22.84 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 48     | 22.81 | 22.82 | 22.82 |       |         |       |       |       |       |
| 16                 | QPSK       | 25   | 0      | 22.79 | 22.67 | 22.87 |       |         |       |       |       |       |
| 16                 | QPSK       | 25   | 12     | 23.02 | 22.86 | 22.87 |       |         |       |       |       |       |
| 16                 | QPSK       | 25   | 25     | 23.00 | 22.85 | 22.81 |       |         |       |       |       |       |
| 16                 | QPSK       | 25   | 38     | 22.81 | 22.75 | 22.83 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.67 | 22.68 | 22.65 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 25     | 22.65 | 22.59 | 22.77 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 48     | 22.87 | 22.56 | 22.58 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 0      | 22.83 | 22.74 | 22.82 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 12     | 22.72 | 22.64 | 22.85 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 25     | 22.68 | 22.54 | 22.69 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 38     | 22.64 | 22.58 | 22.66 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.65 | 22.35 | 22.68 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 25     | 22.62 | 22.35 | 22.31 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 48     | 22.84 | 22.47 | 22.49 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 0      | 21.53 | 21.64 | 21.58 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 12     | 21.54 | 21.55 | 21.84 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 25     | 21.45 | 21.48 | 21.81 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 38     | 21.79 | 21.50 | 21.84 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 0      | 19.42 | 18.40 | 19.30 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 25     | 19.64 | 18.74 | 19.49 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 48     | 19.53 | 18.61 | 18.62 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 25   | 0      | 18.63 | 18.05 | 18.43 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 25   | 12     | 18.60 | 18.05 | 18.49 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 25   | 25     | 19.41 | 18.50 | 18.50 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 25   | 38     | 19.49 | 18.48 | 18.55 |       |         |       |       |       |       |
| Channel            |            |      |        |       |       |       |       |         |       | 26T55 | 26M55 | 26T55 |
| Frequency (MHz)    |            |      |        |       |       |       |       |         |       | 26T55 | 26M55 | 26T55 |
| 16                 | QPSK       | 1    | 0      | 22.60 | 22.58 | 22.63 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 12     | 22.82 | 22.68 | 22.80 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 24     | 22.80 | 22.74 | 22.82 |       |         |       |       |       |       |
| 16                 | QPSK       | 12   | 0      | 22.71 | 22.57 | 22.69 |       |         |       |       |       |       |
| 16                 | QPSK       | 12   | 12     | 22.74 | 22.56 | 22.74 |       |         |       |       |       |       |
| 16                 | QPSK       | 12   | 24     | 22.92 | 22.82 | 22.78 |       |         |       |       |       |       |
| 16                 | QPSK       | 25   | 0      | 22.71 | 22.79 | 22.67 |       |         |       |       |       |       |
| 16                 | QPSK       | 25   | 12     | 22.74 | 22.67 | 22.74 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 12     | 22.54 | 22.52 | 22.85 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 24     | 22.61 | 22.59 | 22.80 |       |         |       |       |       |       |
| 16                 | 16QAM      | 12   | 0      | 22.01 | 22.70 | 22.68 |       |         |       |       |       |       |
| 16                 | 16QAM      | 12   | 12     | 22.97 | 22.59 | 22.54 |       |         |       |       |       |       |
| 16                 | 16QAM      | 12   | 24     | 22.84 | 22.56 | 22.65 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 0      | 22.62 | 22.64 | 22.81 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.53 | 22.34 | 22.54 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 12     | 22.62 | 22.62 | 22.42 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 24     | 22.51 | 22.54 | 22.63 |       |         |       |       |       |       |
| 16                 | 16QAM      | 12   | 0      | 21.42 | 21.42 | 21.77 |       |         |       |       |       |       |
| 16                 | 16QAM      | 12   | 12     | 21.57 | 21.53 | 21.70 |       |         |       |       |       |       |
| 16                 | 16QAM      | 12   | 24     | 21.54 | 21.44 | 21.79 |       |         |       |       |       |       |
| 16                 | 16QAM      | 25   | 0      | 21.41 | 21.42 | 21.59 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 19.47 | 18.45 | 19.45 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 12     | 19.51 | 18.45 | 19.42 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 24     | 19.54 | 18.46 | 19.48 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 12   | 0      | 19.48 | 18.46 | 19.46 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 12   | 12     | 19.56 | 18.40 | 19.42 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 12   | 24     | 19.52 | 18.49 | 19.49 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 25   | 0      | 19.42 | 18.49 | 19.49 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 25   | 12     | 19.41 | 18.53 | 19.49 |       |         |       |       |       |       |
| Channel            |            |      |        |       |       |       |       |         |       | 26M55 | 26M55 | 26M55 |
| Frequency (MHz)    |            |      |        |       |       |       |       |         |       | 26T55 | 26M55 | 26M55 |
| 16                 | QPSK       | 1    | 0      | 22.75 | 22.67 | 22.76 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 9      | 22.92 | 22.82 | 22.88 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 18     | 22.83 | 22.82 | 22.84 |       |         |       |       |       |       |
| 16                 | QPSK       | 8    | 0      | 22.72 | 22.64 | 22.88 |       |         |       |       |       |       |
| 16                 | QPSK       | 8    | 9      | 21.05 | 22.81 | 22.93 |       |         |       |       |       |       |
| 16                 | QPSK       | 8    | 18     | 22.91 | 22.81 | 22.87 |       |         |       |       |       |       |
| 16                 | QPSK       | 15   | 0      | 22.91 | 22.89 | 22.88 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.79 | 22.45 | 22.55 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 9      | 22.85 | 22.81 | 22.88 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 18     | 22.86 | 22.81 | 22.88 |       |         |       |       |       |       |
| 16                 | 16QAM      | 8    | 0      | 22.63 | 22.85 | 22.73 |       |         |       |       |       |       |
| 16                 | 16QAM      | 8    | 9      | 22.75 | 22.84 | 22.72 |       |         |       |       |       |       |
| 16                 | 16QAM      | 8    | 18     | 22.93 | 22.84 | 22.88 |       |         |       |       |       |       |
| 16                 | 16QAM      | 15   | 0      | 22.80 | 22.38 | 22.58 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.47 | 22.65 | 22.37 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 9      | 22.75 | 22.75 | 22.41 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 18     | 22.69 | 22.48 | 22.37 |       |         |       |       |       |       |
| 16                 | 16QAM      | 8    | 0      | 21.30 | 21.39 | 21.58 |       |         |       |       |       |       |
| 16                 | 16QAM      | 8    | 9      | 21.63 | 21.84 | 21.74 |       |         |       |       |       |       |
| 16                 | 16QAM      | 8    | 18     | 21.57 | 21.43 | 21.60 |       |         |       |       |       |       |
| 16                 | 16QAM      | 15   | 0      | 21.40 | 21.58 | 21.63 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 0      | 19.31 | 18.57 | 18.48 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 9      | 19.30 | 18.61 | 18.47 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 18     | 19.44 | 18.60 | 18.54 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 8    | 0      | 19.35 | 18.05 | 18.42 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 8    | 9      | 19.48 | 18.46 | 18.46 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 8    | 18     | 19.42 | 18.43 | 18.49 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 15   | 0      | 19.40 | 18.53 | 19.49 |       |         |       |       |       |       |
| Channel            |            |      |        |       |       |       |       |         |       | 26M55 | 26M55 | 26M55 |
| Frequency (MHz)    |            |      |        |       |       |       |       |         |       | 26T55 | 26M55 | 26M55 |
| 16                 | QPSK       | 1    | 0      | 22.75 | 22.67 | 22.76 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 9      | 22.78 | 22.87 | 22.87 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 9      | 22.64 | 22.93 | 22.84 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 9      | 22.68 | 22.74 | 22.82 |       |         |       |       |       |       |
| 16                 | QPSK       | 1    | 1      | 22.80 | 22.79 | 22.75 |       |         |       |       |       |       |
| 16                 | QPSK       | 3    | 0      | 22.86 | 22.82 | 22.88 |       |         |       |       |       |       |
| 16                 | QPSK       | 8    | 1      | 22.80 | 22.81 | 23.03 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.68 | 22.47 | 22.51 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 1      | 22.68 | 22.81 | 22.71 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 9      | 22.64 | 22.87 | 22.68 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 9      | 22.74 | 22.82 | 22.41 |       |         |       |       |       |       |
| 16                 | 16QAM      | 3    | 1      | 22.72 | 22.54 | 22.52 |       |         |       |       |       |       |
| 16                 | 16QAM      | 3    | 3      | 22.62 | 22.58 | 22.82 |       |         |       |       |       |       |
| 16                 | 16QAM      | 3    | 8      | 22.83 | 22.57 | 22.66 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 0      | 22.52 | 22.39 | 22.65 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 3      | 22.78 | 22.59 | 22.51 |       |         |       |       |       |       |
| 16                 | 16QAM      | 1    | 9      | 22.76 | 22.82 | 22.82 |       |         |       |       |       |       |
| 16                 | 16QAM      | 3    | 0      | 22.62 | 22.45 | 22.97 |       |         |       |       |       |       |
| 16                 | 16QAM      | 3    | 1      | 22.59 | 22.84 | 22.88 |       |         |       |       |       |       |
| 16                 | 16QAM      | 3    | 3      | 22.69 | 22.83 | 22.97 |       |         |       |       |       |       |
| 16                 | 16QAM      | 3    | 8      | 22.90 | 22.42 | 22.97 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 0      | 19.34 | 18.43 | 19.61 |       |         |       |       |       |       |
| 16                 | ZHSQAM     | 1    | 3      | 19.35 | 18.68 | 19.41 |       |         |       |       |       |       |

| Band 26(FCC)_Ant 1 |           |         |           |             |             |             |             |             |             |               |
|--------------------|-----------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| SV                 | Multicast | RB Size | RB Offset | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Turn-on (dBm) |
| Channel            |           |         |           |             |             |             |             |             |             |               |
| Frequency (MHz)    |           |         |           | 26.765      | 26.865      | 26.965      | 26.765      | 26.865      | 26.965      | Turn-on (dBm) |
| 15                 | QPSK      | 1       | 0         | 22.78       | 22.68       | 22.68       | 22.68       | 22.68       | 22.68       | 24            |
| 15                 | QPSK      | 1       | 8         | 22.81       | 22.74       | 22.74       | 22.74       | 22.74       | 22.74       | 24            |
| 15                 | QPSK      | 1       | 16        | 22.83       | 22.81       | 22.81       | 22.81       | 22.81       | 22.81       | 24            |
| 15                 | QPSK      | 36      | 0         | 22.83       | 22.81       | 22.81       | 22.81       | 22.81       | 22.81       | 24            |
| 15                 | QPSK      | 36      | 26        | 22.83       | 22.81       | 22.81       | 22.81       | 22.81       | 22.81       | 24            |
| 15                 | QPSK      | 36      | 50        | 22.83       | 22.81       | 22.81       | 22.81       | 22.81       | 22.81       | 24            |
| 15                 | QPSK      | 36      | 74        | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 98        | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 122       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 146       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 170       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 194       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 218       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 242       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 266       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 290       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 314       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 338       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 362       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 386       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 410       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 434       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 458       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 482       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 506       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 530       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 554       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 578       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 602       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 626       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 650       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 674       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 698       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 722       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 746       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 770       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 794       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 818       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 842       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 866       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 890       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 914       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 938       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 962       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 986       | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1010      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1034      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1058      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1082      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1106      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1130      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1154      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1178      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1202      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1226      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1250      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1274      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1298      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1322      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1346      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1370      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1394      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1418      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1442      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1466      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1490      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1514      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1538      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1562      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1586      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1610      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1634      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1658      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1682      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1706      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1730      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1754      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1778      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1802      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1826      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1850      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1874      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1898      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1922      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1946      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1970      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 1994      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2018      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2042      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2066      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2090      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2114      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2138      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2162      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2186      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2210      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2234      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2258      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2282      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2306      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2330      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2354      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2378      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2402      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2426      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2450      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2474      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2498      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2522      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2546      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2570      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2594      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2618      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2642      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2666      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2690      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2714      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2738      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2762      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       | 22.77       | 24            |
| 15                 | QPSK      | 36      | 2786      | 22.81       | 22.77       | 22.77       | 22.77       | 22.77       |             |               |

| Band 30_Ant 1   |            |          |           |                       |                        |                        |                     |          |  |  |  |
|-----------------|------------|----------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|--|--|
| BW (kHz)        | Modulation | RB (kHz) | RB Offset | Power Low Ch. (Freq.) | Power Mids Ch. (Freq.) | Power High Ch. (Freq.) | Tune-up freq. (MHz) | MPE (dB) |  |  |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |  |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 1        | 0         | 21.79                 |                        |                        | 22.6                | 0        |  |  |  |
| 10              | QPSK       | 1        | 25        | 21.83                 |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 1        | 49        | 21.77                 |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 25       | 0         | 21.79                 |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 25       | 12        | 21.86                 |                        |                        | 22.6                | 0        |  |  |  |
| 10              | QPSK       | 25       | 25        | 21.80                 |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 50       | 0         | 21.86                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 1        | 0         | 21.81                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 1        | 25        | 21.73                 |                        |                        | 22.6                | 0        |  |  |  |
| 10              | 16QAM      | 1        | 49        | 21.75                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25       | 0         | 21.83                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25       | 12        | 21.87                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25       | 25        | 21.82                 |                        |                        | 22.6                | 0        |  |  |  |
| 10              | 16QAM      | 50       | 0         | 21.81                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 1        | 0         | 21.71                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 1        | 25        | 21.75                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 1        | 49        | 21.87                 |                        |                        | 22.6                | 0        |  |  |  |
| 10              | 84QAM      | 25       | 0         | 20.81                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 25       | 12        | 20.83                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 25       | 25        | 20.84                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 50       | 0         | 20.81                 |                        |                        | 22.8                | 0        |  |  |  |
| 10              | 256QAM     | 1        | 0         | 18.71                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 1        | 25        | 18.12                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 1        | 49        | 18.25                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 25       | 0         | 18.31                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 25       | 12        | 18.08                 |                        |                        | 20                  | 2.8      |  |  |  |
| 10              | 256QAM     | 25       | 25        | 18.03                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 50       | 0         | 18.04                 |                        |                        |                     |          |  |  |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |  |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |  |  |
| 5               | QPSK       | 1        | 0         | 21.73                 | 21.86                  | 21.83                  | 22.8                | 0        |  |  |  |
| 5               | QPSK       | 1        | 12        | 21.74                 | 21.87                  | 21.88                  |                     |          |  |  |  |
| 5               | QPSK       | 1        | 24        | 21.84                 | 21.74                  | 21.86                  |                     |          |  |  |  |
| 5               | QPSK       | 12       | 0         | 21.09                 | 21.86                  | 21.79                  |                     |          |  |  |  |
| 5               | QPSK       | 12       | 7         | 21.84                 | 21.78                  | 21.77                  | 22.6                | 0        |  |  |  |
| 5               | QPSK       | 12       | 13        | 21.76                 | 21.88                  | 21.73                  |                     |          |  |  |  |
| 5               | QPSK       | 26       | 0         | 21.78                 | 21.72                  | 21.74                  |                     |          |  |  |  |
| 5               | 16QAM      | 1        | 0         | 21.48                 | 21.82                  | 21.58                  |                     |          |  |  |  |
| 5               | 16QAM      | 1        | 12        | 21.84                 | 21.86                  | 21.73                  | 22.6                | 0        |  |  |  |
| 5               | 16QAM      | 1        | 24        | 21.58                 | 21.57                  | 21.86                  |                     |          |  |  |  |
| 5               | 16QAM      | 12       | 0         | 21.82                 | 21.42                  | 21.41                  |                     |          |  |  |  |
| 5               | 16QAM      | 12       | 7         | 21.44                 | 21.57                  | 21.45                  |                     |          |  |  |  |
| 5               | 16QAM      | 12       | 13        | 21.57                 | 21.48                  | 21.55                  | 22.8                | 0        |  |  |  |
| 5               | 16QAM      | 26       | 0         | 21.42                 | 21.55                  | 21.43                  |                     |          |  |  |  |
| 5               | 84QAM      | 1        | 0         | 21.58                 | 21.74                  | 21.75                  |                     |          |  |  |  |
| 5               | 84QAM      | 1        | 12        | 21.81                 | 21.47                  | 21.45                  |                     |          |  |  |  |
| 5               | 84QAM      | 1        | 24        | 21.87                 | 21.85                  | 21.44                  | 22.6                | 0        |  |  |  |
| 5               | 84QAM      | 12       | 0         | 20.85                 | 20.88                  | 20.77                  |                     |          |  |  |  |
| 5               | 84QAM      | 12       | 7         | 20.87                 | 20.88                  | 20.85                  |                     |          |  |  |  |
| 5               | 84QAM      | 12       | 13        | 20.81                 | 20.88                  | 20.78                  |                     |          |  |  |  |
| 5               | 84QAM      | 25       | 0         | 20.88                 | 20.79                  | 20.75                  | 20                  | 2.8      |  |  |  |
| 5               | 256QAM     | 1        | 0         | 18.75                 | 18.71                  | 18.61                  |                     |          |  |  |  |
| 5               | 256QAM     | 1        | 12        | 18.86                 | 18.68                  | 18.68                  |                     |          |  |  |  |
| 5               | 256QAM     | 1        | 24        | 18.26                 | 18.87                  | 18.88                  |                     |          |  |  |  |
| 5               | 256QAM     | 12       | 0         | 18.70                 | 18.71                  | 18.61                  | 20                  | 2.8      |  |  |  |
| 5               | 256QAM     | 12       | 7         | 18.91                 | 18.17                  | 18.01                  |                     |          |  |  |  |
| 5               | 256QAM     | 12       | 13        | 18.88                 | 18.80                  | 18.87                  |                     |          |  |  |  |
| 5               | 256QAM     | 25       | 0         | 18.78                 | 18.01                  | 18.03                  |                     |          |  |  |  |

| Band 30_Ant 2   |            |          |           |                       |                        |                        |                     |          |  |  |  |
|-----------------|------------|----------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|--|--|
| BW (kHz)        | Modulation | RB (kHz) | RB Offset | Power Low Ch. (Freq.) | Power Mids Ch. (Freq.) | Power High Ch. (Freq.) | Tune-up freq. (MHz) | MPE (dB) |  |  |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |  |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 1        | 0         | 22.18                 |                        |                        | 24                  | 0        |  |  |  |
| 10              | QPSK       | 1        | 25        | 22.25                 |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 1        | 49        | 22.20                 |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 25       | 0         | 22.18                 |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 25       | 12        | 22.24                 |                        |                        | 24                  | 0        |  |  |  |
| 10              | QPSK       | 25       | 25        | 22.28                 |                        |                        |                     |          |  |  |  |
| 10              | QPSK       | 50       | 0         | 22.21                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 1        | 0         | 22.20                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 1        | 25        | 22.17                 |                        |                        | 24                  | 0        |  |  |  |
| 10              | 16QAM      | 1        | 49        | 22.18                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25       | 0         | 21.25                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25       | 12        | 21.24                 |                        |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25       | 25        | 21.24                 |                        |                        | 23                  | 1        |  |  |  |
| 10              | 16QAM      | 50       | 0         | 21.22                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 1        | 0         | 21.17                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 1        | 25        | 21.15                 |                        |                        | 23                  | 1        |  |  |  |
| 10              | 84QAM      | 1        | 49        | 21.11                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 25       | 0         | 20.13                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 25       | 12        | 20.11                 |                        |                        | 22                  | 2        |  |  |  |
| 10              | 84QAM      | 25       | 25        | 20.13                 |                        |                        |                     |          |  |  |  |
| 10              | 84QAM      | 50       | 0         | 20.09                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 1        | 0         | 18.12                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 1        | 25        | 18.07                 |                        |                        | 20                  | 4        |  |  |  |
| 10              | 256QAM     | 1        | 49        | 18.07                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 1        | 49        | 18.03                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 25       | 0         | 18.09                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 25       | 12        | 18.03                 |                        |                        | 20                  | 4        |  |  |  |
| 10              | 256QAM     | 25       | 25        | 18.12                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 50       | 0         | 18.12                 |                        |                        |                     |          |  |  |  |
| 10              | 256QAM     | 50       | 0         | 18.14                 |                        |                        |                     |          |  |  |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |  |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |  |  |
| 5               | QPSK       | 1        | 0         | 22.17                 | 22.13                  | 22.14                  | 24                  | 0        |  |  |  |
| 5               | QPSK       | 1        | 12        | 22.24                 | 22.24                  | 22.23                  |                     |          |  |  |  |
| 5               | QPSK       | 1        | 24        | 22.15                 | 22.17                  | 22.13                  |                     |          |  |  |  |
| 5               | QPSK       | 12       | 0         | 22.13                 | 22.05                  | 22.12                  |                     |          |  |  |  |
| 5               | QPSK       | 12       | 7         | 22.19                 | 22.11                  | 22.18                  | 24                  | 0        |  |  |  |
| 5               | QPSK       | 12       | 13        | 22.11                 | 22.07                  | 22.07                  |                     |          |  |  |  |
| 5               | QPSK       | 26       | 0         | 22.18                 | 22.09                  | 22.12                  |                     |          |  |  |  |
| 5               | 16QAM      | 1        | 0         | 22.03                 | 22.07                  | 22.05                  |                     |          |  |  |  |
| 5               | 16QAM      | 1        | 12        | 22.19                 | 22.20                  | 22.10                  | 24                  | 0        |  |  |  |
| 5               | 16QAM      | 1        | 24        | 22.02                 | 22.08                  | 22.07                  |                     |          |  |  |  |
| 5               | 16QAM      | 12       | 0         | 21.91                 | 21.11                  | 21.18                  |                     |          |  |  |  |
| 5               | 16QAM      | 12       | 7         | 21.19                 | 21.15                  | 21.28                  |                     |          |  |  |  |
| 5               | 16QAM      | 12       | 13        | 21.21                 | 21.13                  | 21.08                  | 23                  | 1        |  |  |  |
| 5               | 16QAM      | 26       | 0         | 21.17                 | 21.10                  | 21.15                  |                     |          |  |  |  |
| 5               | 84QAM      | 1        | 0         | 21.21                 | 21.18                  | 21.28                  |                     |          |  |  |  |
| 5               | 84QAM      | 1        | 12        | 21.31                 | 21.28                  | 21.33                  | 23                  | 1        |  |  |  |
| 5               | 84QAM      | 1        | 24        | 21.17                 | 21.10                  | 21.14                  |                     |          |  |  |  |
| 5               | 84QAM      | 12       | 0         | 20.15                 | 20.10                  | 20.18                  |                     |          |  |  |  |
| 5               | 84QAM      | 12       | 7         | 20.16                 | 20.12                  | 20.21                  | 22                  | 2        |  |  |  |
| 5               | 84QAM      | 12       | 13        | 20.17                 | 20.10                  | 20.10                  |                     |          |  |  |  |
| 5               | 84QAM      | 25       | 0         | 20.16                 | 20.08                  | 20.13                  |                     |          |  |  |  |
| 5               | 256QAM     | 1        | 0         | 18.13                 | 18.08                  | 18.18                  |                     |          |  |  |  |
| 5               | 256QAM     | 1        | 12        | 18.12                 | 18.08                  | 18.05                  | 20                  | 4        |  |  |  |
| 5               | 256QAM     | 1        | 24        | 18.06                 | 18.07                  | 18.12                  |                     |          |  |  |  |
| 5               | 256QAM     | 12       | 0         | 18.17                 | 18.14                  | 18.14                  |                     |          |  |  |  |
| 5               | 256QAM     | 12       | 7         | 18.07                 | 18.08                  | 18.12                  |                     |          |  |  |  |
| 5               | 256QAM     | 12       | 13        | 18.16                 | 18.16                  | 18.18                  | 20                  | 4        |  |  |  |
| 5               | 256QAM     | 25       | 0         | 18.21                 | 18.14                  | 18.18                  |                     |          |  |  |  |

| Band 66_Ant 1   |            |          |           |                       |                        |                        |                     |          |  |
|-----------------|------------|----------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|--|
| BW (kHz)        | Modulation | RB (kHz) | RB Offset | Power Low Ch. (Freq.) | Power Mids Ch. (Freq.) | Power High Ch. (Freq.) | Tune-up freq. (MHz) | MPE (dB) |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 20              | QPSK       | 1        | 0         | 18.08                 | 18.28                  | 18.05                  | 20.2                | 0        |  |
| 20              | QPSK       | 1        | 49        | 18.15                 | 18.32                  | 18.10                  |                     |          |  |
| 20              | QPSK       | 1        | 98        | 18.13                 | 18.24                  | 18.06                  |                     |          |  |
| 20              | QPSK       | 50       | 0         | 18.05                 | 18.21                  | 18.04                  |                     |          |  |
| 20              | QPSK       | 50       | 24        | 18.13                 | 18.30                  | 18.09                  | 20.2                | 0        |  |
| 20              | QPSK       | 50       | 49        | 18.10                 | 18.12                  | 18.05                  |                     |          |  |
| 20              | QPSK       | 100      | 0         | 18.04                 | 18.20                  | 18.04                  |                     |          |  |
| 20              | 16QAM      | 1        | 0         | 18.28                 | 18.25                  | 18.18                  |                     |          |  |
| 20              | 16QAM      | 1        | 49        | 18.12                 | 18.28                  | 18.28                  | 20.2                | 0        |  |
| 20              | 16QAM      | 1        | 98        | 18.16                 | 18.30                  | 18.06                  |                     |          |  |
| 20              | 16QAM      | 50       | 0         | 18.11                 | 18.10                  | 18.05                  |                     |          |  |
| 20              | 16QAM      | 50       | 24        | 18.10                 | 18.11                  | 18.02                  |                     |          |  |
| 20              | 16QAM      | 50       | 49        | 18.08                 | 18.10                  | 18.01                  | 20.2                | 0        |  |
| 20              | 16QAM      | 100      | 0         | 18.17                 | 18.26                  | 18.04                  | 19                  | 1.0      |  |
| 20              | 16QAM      | 1        | 0         | 18.06                 | 17.88                  | 17.88                  |                     |          |  |
| 20              | 16QAM      | 1        | 49        | 17.79                 | 18.02                  | 17.83                  |                     |          |  |
| 20              | 16QAM      | 1        | 98        | 17.85                 | 17.88                  | 17.87                  |                     |          |  |
| 20              | 16QAM      | 1        | 49        | 17.88                 | 17.89                  | 17.71                  | 19                  | 1.0      |  |
| 20              | 16QAM      | 50       | 24        | 17.82                 | 17.84                  | 17.65                  |                     |          |  |
| 20              | 16QAM      | 50       | 49        | 17.88                 | 17.84                  | 17.68                  |                     |          |  |
| 20              | 16QAM      | 100      | 0         | 17.76                 | 17.89                  | 17.88                  |                     |          |  |
| Channel         |            |          |           |                       |                        |                        |                     |          |  |
| Frequency (MHz) |            |          |           |                       |                        |                        |                     |          |  |
| 15              | QPSK       | 1        | 0         | 18.80                 | 18.81                  | 18.81                  | 19.0                | 0        |  |
| 15              | QPSK       | 1        | 39        | 18.89                 | 18.97                  | 18.99                  |                     |          |  |
| 15              | QPSK       | 1        | 78        | 18.94                 | 19.04                  | 18.75                  |                     |          |  |
| 15              | QPSK       | 36       | 0         | 18.05                 | 18.14                  | 18.00                  |                     |          |  |
| 15              | QPSK       | 36       | 20        | 18.05                 | 18.20                  | 18.03                  | 19                  | 0        |  |
| 15              | QPSK       | 36       | 39        | 18.08                 | 18.39                  | 18.07                  |                     |          |  |
| 15              | QPSK       | 36       | 78        | 18.07                 | 18.26                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.27                 | 18.13                  | 18.15                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.24                  | 18.13                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 78        | 18.27                 | 18.02                  | 18.02                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.05                 | 18.04                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.08                 | 18.01                  | 18.06                  |                     |          |  |
| 15              | 16QAM      | 36       | 39        | 18.04                 | 18.04                  | 18.00                  | 20.2                | 0        |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 1        | 78        | 18.04                 | 18.06                  | 18.01                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  | 20.2                | 0        |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |
| 15              | 16QAM      | 36       | 20        | 18.14                 | 18.02                  | 18.03                  |                     |          |  |
| 15              | 16QAM      | 75       | 0         | 18.13                 | 18.09                  | 18.03                  | 20.2                | 0        |  |
| 15              | 16QAM      | 1        | 0         | 18.22                 | 18.07                  | 18.07                  |                     |          |  |
| 15              | 16QAM      | 1        | 39        | 18.06                 | 18.03                  | 18.08                  |                     |          |  |
| 15              | 16QAM      | 36       | 0         | 18.04                 | 18.06                  | 18.01                  |                     |          |  |

| Band 66_Ant 2   |            |         |           |             |                 |                 |                    |                    |          |     |  |  |
|-----------------|------------|---------|-----------|-------------|-----------------|-----------------|--------------------|--------------------|----------|-----|--|--|
| SW              | Modulation | RB Size | RB Offset | Power (dBm) | Power (Ch/Freq) | Power (Ch/Freq) | Power (Ch/Freq)    | Turn-up time (dBm) | MFR (dB) |     |  |  |
| Channel         |            |         |           | 150972      | 150922          | 150972          |                    |                    |          |     |  |  |
| Frequency (MHz) |            |         |           | 1725        | 1745            | 1765            |                    |                    |          |     |  |  |
| 25              | QPSK       | 1       | 0         | 22.27       | 22.42           | 22.28           |                    |                    |          |     |  |  |
| 25              | QPSK       | 1       | 40        | 22.27       | 22.42           | 22.28           |                    |                    | 23.2     | 0   |  |  |
| 25              | QPSK       | 1       | 80        | 22.22       | 22.25           | 21.60           |                    |                    |          |     |  |  |
| 25              | QPSK       | 50      | 0         | 22.28       | 22.42           | 22.13           |                    |                    |          |     |  |  |
| 25              | QPSK       | 50      | 40        | 22.27       | 22.42           | 22.14           |                    |                    | 23.2     | 0   |  |  |
| 25              | QPSK       | 50      | 80        | 22.26       | 22.33           | 22.14           |                    |                    |          |     |  |  |
| 25              | QPSK       | 100     | 0         | 22.23       | 22.38           | 22.28           |                    |                    |          |     |  |  |
| 25              | QPSK       | 1       | 0         | 22.15       | 22.24           | 22.24           |                    |                    |          |     |  |  |
| 25              | QPSK       | 1       | 40        | 22.17       | 22.42           | 22.27           |                    |                    | 23.2     | 0   |  |  |
| 25              | QPSK       | 1       | 80        | 22.19       | 22.12           | 22.28           |                    |                    |          |     |  |  |
| 25              | QPSK       | 50      | 0         | 22.31       | 22.42           | 22.18           |                    |                    |          |     |  |  |
| 25              | QPSK       | 50      | 40        | 22.27       | 22.38           | 22.20           |                    |                    | 23.2     | 0   |  |  |
| 25              | QPSK       | 50      | 80        | 22.24       | 22.34           | 22.14           |                    |                    |          |     |  |  |
| 25              | QPSK       | 100     | 0         | 22.33       | 22.38           | 22.27           |                    |                    |          |     |  |  |
| 25              | QPSK       | 1       | 0         | 22.20       | 22.20           | 22.20           |                    |                    |          |     |  |  |
| 25              | QPSK       | 1       | 40        | 22.11       | 22.28           | 22.18           |                    |                    | 23.2     | 0   |  |  |
| 25              | QPSK       | 1       | 80        | 22.09       | 22.12           | 22.14           |                    |                    |          |     |  |  |
| 25              | QPSK       | 50      | 0         | 21.81       | 22.24           | 21.83           |                    |                    |          |     |  |  |
| 25              | QPSK       | 50      | 40        | 21.84       | 22.28           | 21.83           |                    |                    | 23       | 0.2 |  |  |
| 25              | QPSK       | 50      | 80        | 21.86       | 21.86           | 21.86           |                    |                    |          |     |  |  |
| 25              | QPSK       | 100     | 0         | 21.86       | 21.86           | 21.79           |                    |                    |          |     |  |  |
| 25              | QPSK       | 1       | 0         | 21.81       | 21.81           | 21.86           |                    |                    |          |     |  |  |
| 25              | QPSK       | 1       | 40        | 18.90       | 18.97           | 18.97           |                    |                    | 20       | 3.1 |  |  |
| 25              | QPSK       | 1       | 80        | 18.75       | 18.88           | 18.91           |                    |                    |          |     |  |  |
| 25              | QPSK       | 50      | 0         | 18.84       | 18.84           | 18.84           |                    |                    |          |     |  |  |
| 25              | QPSK       | 50      | 40        | 18.84       | 18.88           | 18.82           |                    |                    | 20       | 3.1 |  |  |
| 25              | QPSK       | 50      | 80        | 18.88       | 18.82           | 18.84           |                    |                    |          |     |  |  |
| 25              | QPSK       | 100     | 0         | 18.79       | 18.87           | 18.84           |                    |                    |          |     |  |  |
| Channel         |            |         |           | 150922      | 150922          | 150922          | Turn-up time (dBm) | MFR (dB)           |          |     |  |  |
| Frequency (MHz) |            |         |           | 1712.5      | 1745            | 1772.5          |                    |                    |          |     |  |  |
| 15              | QPSK       | 1       | 0         | 22.28       | 22.18           | 22.18           |                    |                    |          |     |  |  |
| 15              | QPSK       | 1       | 37        | 22.28       | 22.42           | 22.18           |                    |                    | 23.2     | 0   |  |  |
| 15              | QPSK       | 1       | 74        | 22.27       | 22.38           | 22.17           |                    |                    |          |     |  |  |
| 15              | QPSK       | 36      | 0         | 22.22       | 22.35           | 21.60           |                    |                    |          |     |  |  |
| 15              | QPSK       | 36      | 36        | 22.20       | 22.30           | 22.10           |                    |                    | 23.2     | 0   |  |  |
| 15              | QPSK       | 36      | 72        | 22.16       | 22.23           | 22.03           |                    |                    |          |     |  |  |
| 15              | QPSK       | 72      | 0         | 22.17       | 22.34           | 22.13           |                    |                    |          |     |  |  |
| 15              | QPSK       | 1       | 0         | 22.07       | 22.32           | 22.17           |                    |                    |          |     |  |  |
| 15              | QPSK       | 1       | 37        | 22.17       | 22.29           | 22.22           |                    |                    | 23.2     | 0   |  |  |
| 15              | QPSK       | 1       | 74        | 22.11       | 22.27           | 22.11           |                    |                    |          |     |  |  |
| 15              | QPSK       | 36      | 0         | 22.16       | 22.38           | 22.17           |                    |                    |          |     |  |  |
| 15              | QPSK       | 36      | 36        | 22.22       | 22.32           | 22.17           |                    |                    | 23.2     | 0   |  |  |
| 15              | QPSK       | 36      | 72        | 22.20       | 22.28           | 22.20           |                    |                    |          |     |  |  |
| 15              | QPSK       | 1       | 0         | 22.16       | 22.08           | 22.13           |                    |                    |          |     |  |  |
| 15              | QPSK       | 1       | 37        | 22.10       | 22.20           | 21.92           |                    |                    | 23.2     | 0   |  |  |
| 15              | QPSK       | 1       | 74        | 22.08       | 22.18           | 21.92           |                    |                    |          |     |  |  |
| 15              | QPSK       | 36      | 0         | 21.87       | 21.73           | 21.88           |                    |                    |          |     |  |  |
| 15              | QPSK       | 36      | 36        | 21.82       | 22.76           | 21.84           |                    |                    | 23       | 0.2 |  |  |
| 15              | QPSK       | 36      | 72        | 21.79       | 21.82           | 21.82           |                    |                    |          |     |  |  |
| 15              | QPSK       | 72      | 0         | 21.87       | 21.61           | 21.82           |                    |                    |          |     |  |  |
| 15              | QPSK       | 1       | 0         | 18.86       | 18.82           | 18.77           |                    |                    |          |     |  |  |
| 15              | QPSK       | 1       | 37        | 18.84       | 18.88           | 18.84           |                    |                    | 20       | 3.1 |  |  |
| 15              | QPSK       | 1       | 74        | 18.84       | 18.88           | 18.82           |                    |                    |          |     |  |  |
| 15              | QPSK       | 36      | 0         | 18.92       | 18.84           | 18.86           |                    |                    |          |     |  |  |
| 15              | QPSK       | 36      | 36        | 18.83       | 18.86           | 18.81           |                    |                    | 20       | 3.2 |  |  |
| 15              | QPSK       | 36      | 72        | 18.88       | 18.82           | 18.84           |                    |                    |          |     |  |  |
| 15              | QPSK       | 72      | 0         | 18.77       | 18.85           | 18.84           |                    |                    |          |     |  |  |
| Channel         |            |         |           | 150922      | 150922          | 150922          | Turn-up time (dBm) | MFR (dB)           |          |     |  |  |
| Frequency (MHz) |            |         |           | 1712.5      | 1745            | 1772.5          |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 0         | 22.29       | 22.43           | 22.29           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 26        | 22.19       | 22.43           | 22.28           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 1       | 48        | 22.20       | 22.23           | 21.82           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 70        | 22.27       | 22.34           | 21.83           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 0         | 22.17       | 22.30           | 22.10           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 26        | 22.23       | 22.22           | 22.10           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 25      | 48        | 22.19       | 22.33           | 22.18           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 70        | 22.28       | 22.35           | 22.24           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 0         | 22.23       | 22.38           | 22.28           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 48        | 22.16       | 22.20           | 22.25           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 1       | 70        | 22.12       | 22.25           | 22.25           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 0         | 22.27       | 22.28           | 22.28           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 25      | 26        | 22.28       | 22.22           | 22.24           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 48        | 22.23       | 22.33           | 22.27           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 70        | 22.10       | 22.18           | 22.08           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 0         | 22.10       | 22.18           | 22.08           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 26        | 22.18       | 22.18           | 22.08           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 1       | 48        | 21.93       | 21.91           | 21.88           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 0         | 21.98       | 22.01           | 21.98           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 26        | 21.82       | 21.84           | 21.78           |                    |                    | 23       | 0.2 |  |  |
| 5               | QPSK       | 25      | 48        | 21.77       | 21.88           | 21.88           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 70        | 21.71       | 21.81           | 21.71           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 0         | 19.07       | 18.98           | 18.99           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 26        | 18.76       | 18.78           | 18.84           |                    |                    | 20       | 3.1 |  |  |
| 5               | QPSK       | 1       | 48        | 18.86       | 18.86           | 18.81           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 0         | 18.92       | 18.88           | 18.88           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 26        | 18.85       | 18.88           | 18.88           |                    |                    | 20       | 3.2 |  |  |
| 5               | QPSK       | 25      | 48        | 18.87       | 18.86           | 18.83           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 70        | 18.78       | 18.78           | 18.83           |                    |                    |          |     |  |  |
| Channel         |            |         |           | 150972      | 150922          | 150972          | Turn-up time (dBm) | MFR (dB)           |          |     |  |  |
| Frequency (MHz) |            |         |           | 1712.5      | 1745            | 1772.5          |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 0         | 22.29       | 22.32           | 22.03           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 26        | 22.19       | 22.32           | 22.03           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 1       | 48        | 22.24       | 22.16           | 22.03           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 70        | 22.29       | 22.16           | 22.03           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 0         | 22.24       | 22.39           | 22.03           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 26        | 22.27       | 22.39           | 22.03           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 12      | 48        | 22.23       | 22.32           | 22.03           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 70        | 22.24       | 22.32           | 22.03           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 0         | 22.23       | 22.38           | 22.12           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 26        | 22.20       | 22.32           | 22.12           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 25      | 48        | 22.27       | 22.37           | 22.12           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 70        | 22.28       | 22.36           | 22.12           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 0         | 22.14       | 22.28           | 22.12           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 26        | 22.14       | 22.28           | 22.12           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 1       | 48        | 22.30       | 22.31           | 22.12           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 70        | 22.25       | 22.36           | 22.12           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 0         | 22.23       | 22.39           | 22.08           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 12      | 26        | 22.25       | 22.38           | 22.17           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 48        | 22.22       | 22.37           | 22.17           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 70        | 22.27       | 22.37           | 22.17           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 0         | 22.11       | 22.11           | 21.83           |                    |                    | 23.2     | 0   |  |  |
| 5               | QPSK       | 1       | 26        | 22.07       | 21.95           | 22.12           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 48        | 21.83       | 21.84           | 21.89           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 70        | 21.82       | 21.88           | 21.89           |                    |                    | 23       | 0.2 |  |  |
| 5               | QPSK       | 12      | 0         | 21.86       | 21.87           | 21.83           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 26        | 21.78       | 21.87           | 21.83           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 48        | 21.82       | 21.84           | 21.83           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 70        | 21.86       | 21.86           | 21.86           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 0         | 21.82       | 21.94           | 21.81           |                    |                    | 23       | 0.2 |  |  |
| 5               | QPSK       | 25      | 26        | 21.83       | 21.88           | 21.86           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 48        | 21.88       | 21.88           | 21.88           |                    |                    |          |     |  |  |
| 5               | QPSK       | 25      | 70        | 21.79       | 21.88           | 21.86           |                    |                    | 20       | 3.2 |  |  |
| 5               | QPSK       | 1       | 0         | 18.46       | 18.46           | 18.87           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 26        | 18.46       | 18.46           | 18.87           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 48        | 18.46       | 18.46           | 18.87           |                    |                    |          |     |  |  |
| 5               | QPSK       | 1       | 70        | 18.46       | 18.46           | 18.87           |                    |                    | 20       | 3.1 |  |  |
| 5               | QPSK       | 12      | 0         | 18.76       | 18.76           | 18.86           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 26        | 18.76       | 18.76           | 18.86           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 48        | 18.76       | 18.76           | 18.86           |                    |                    |          |     |  |  |
| 5               | QPSK       | 12      | 70        | 18.76       | 18.76           | 18.86           |                    |                    | 20       | 3.1 |  |  |
| 5               | QPSK       | 25      | 0         | 18.76       | 18.81           | 18.79           |                    |                    |          |     |  |  |
| Channel         |            |         |           | 150972      | 150922          | 150972          | Turn-up time (dBm) | MFR (dB)           |          |     |  |  |
| Frequency (MHz) |            |         |           | 1711.5      | 1740            | 1779.5          |                    |                    |          |     |  |  |
| 3               | QPSK       | 1       | 0         | 22.26       | 22.38           | 22.18           |                    |                    |          |     |  |  |
| 3               | QPSK       | 1       | 8         | 22.24       | 22.34           | 22.17           |                    |                    | 23.2     | 0   |  |  |
| 3               | QPSK       | 1       | 16        | 22.14       | 22.24           | 22.17           |                    |                    |          |     |  |  |
| 3               | QPSK       | 8       | 0         | 22.16       | 22.34           | 22.08           |                    |                    |          |     |  |  |
| 3               | QPSK       | 8       | 8         | 22.16       | 22.34           | 22.08           |                    |                    |          |     |  |  |
| 3               | QPSK       | 1       | 0         | 22.16       | 22.39           | 22.18           |                    |                    | 23.2     | 0   |  |  |
| 3               | QPSK       | 1       | 8         | 22.24       | 22.28           | 22.17           |                    |                    |          |     |  |  |
| 3               | QPSK       | 1       | 16        | 22.21       | 22.28           | 22.17           |                    |                    | 23.2     | 0   |  |  |
| 3               | QPSK       | 8       | 0         | 22.28       | 22.38           | 22.21           |                    |                    |          |     |  |  |
| 3               | QPSK       | 8       | 8         | 22.28       | 22.38           | 22.21           |                    |                    | 23.2     | 0   |  |  |
| 3               | QPSK       | 15      | 0         | 22.31       | 22.32           | 22.15           |                    |                    |          |     |  |  |
| 3               | QPSK       | 1       | 0         | 22.09       | 22.14           | 22.07           |                    |                    |          |     |  |  |
| 3               | QPSK       | 1       | 8         | 21.96       | 21.98           | 21.94           |                    |                    | 23.2     | 0   |  |  |
| 3               | QPSK       | 1       | 16        | 21.91       | 21.98           |                 |                    |                    |          |     |  |  |

| Band 71_Ant 0   |            |          |           |             |             |             |             |                    |          |  |
|-----------------|------------|----------|-----------|-------------|-------------|-------------|-------------|--------------------|----------|--|
| RF (MHz)        | Modulation | RIS Size | RF Offset | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Turn-on time (dBm) | MPR (dB) |  |
| Channel         |            |          |           | 139322      | 139307      | 139302      | 139302      |                    |          |  |
| Frequency (MHz) |            |          |           | 673         | 661.5       | 661.5       |             |                    |          |  |
| 20              | QPSK       | 1        | 0         | 23.21       | 23.12       | 23.16       |             |                    |          |  |
| 20              | QPSK       | 1        | 99        | 23.02       | 23.02       | 23.02       |             | 24                 | 0        |  |
| 20              | QPSK       | 1        | 99        | 23.02       | 23.02       | 23.02       |             |                    |          |  |
| 20              | QPSK       | 50       | 0         | 23.06       | 23.20       | 23.17       |             |                    |          |  |
| 20              | QPSK       | 50       | 99        | 23.06       | 23.20       | 23.17       |             | 24                 | 0        |  |
| 20              | QPSK       | 100      | 0         | 23.19       | 23.19       | 23.16       |             |                    |          |  |
| 20              | QPSK       | 100      | 0         | 23.18       | 23.22       | 23.18       |             |                    |          |  |
| 20              | HQAM       | 1        | 0         | 23.04       | 23.09       | 23.18       |             |                    |          |  |
| 20              | HQAM       | 1        | 99        | 23.04       | 23.09       | 23.18       |             | 24                 | 0        |  |
| 20              | HQAM       | 1        | 99        | 23.08       | 23.20       | 23.20       |             |                    |          |  |
| 20              | HQAM       | 50       | 0         | 22.10       | 22.32       | 22.28       |             |                    |          |  |
| 20              | HQAM       | 50       | 99        | 22.08       | 22.28       | 22.28       |             |                    |          |  |
| 20              | HQAM       | 100      | 0         | 22.25       | 22.09       | 22.09       |             |                    |          |  |
| 20              | HQAM       | 100      | 0         | 22.34       | 22.28       | 22.10       |             |                    |          |  |
| 20              | HQAM       | 1        | 0         | 22.13       | 22.28       | 22.22       |             |                    |          |  |
| 20              | HQAM       | 1        | 99        | 22.17       | 22.27       | 22.22       |             |                    |          |  |
| 20              | HQAM       | 1        | 99        | 22.24       | 22.17       | 22.20       |             |                    |          |  |
| 20              | HQAM       | 50       | 0         | 21.36       | 21.43       | 21.63       |             |                    |          |  |
| 20              | HQAM       | 50       | 99        | 21.36       | 21.43       | 21.63       |             |                    |          |  |
| 20              | HQAM       | 100      | 0         | 21.63       | 21.65       | 21.31       |             | 23                 | 2        |  |
| 20              | HQAM       | 100      | 0         | 21.64       | 21.41       | 21.51       |             |                    |          |  |
| 20              | HQAM       | 1        | 0         | 18.42       | 18.20       | 18.45       |             |                    |          |  |
| 20              | HQAM       | 1        | 99        | 18.42       | 18.20       | 18.45       |             | 23                 | 4        |  |
| 20              | HQAM       | 1        | 99        | 18.37       | 18.38       | 18.50       |             |                    |          |  |
| 20              | HQAM       | 50       | 0         | 18.40       | 18.40       | 18.50       |             |                    |          |  |
| 20              | HQAM       | 50       | 99        | 18.43       | 18.43       | 18.50       |             |                    |          |  |
| 20              | HQAM       | 50       | 100       | 18.42       | 18.48       | 18.38       |             | 23                 | 4        |  |
| 20              | HQAM       | 100      | 0         | 18.43       | 18.35       | 18.51       |             |                    |          |  |
| Channel         |            |          |           | 139197      | 139197      | 139197      | 139197      |                    |          |  |
| Frequency (MHz) |            |          |           | 684         | 661.5       | 661.5       |             | Turn-on time (dBm) | MPR (dB) |  |
| 15              | QPSK       | 1        | 0         | 23.21       | 23.08       | 23.04       |             |                    |          |  |
| 15              | QPSK       | 1        | 99        | 23.02       | 23.08       | 23.11       |             | 24                 | 0        |  |
| 15              | QPSK       | 1        | 99        | 22.88       | 23.03       | 23.04       |             |                    |          |  |
| 15              | QPSK       | 50       | 0         | 23.07       | 23.07       | 23.07       |             |                    |          |  |
| 15              | QPSK       | 50       | 99        | 23.20       | 23.03       | 23.18       |             | 24                 | 0        |  |
| 15              | QPSK       | 50       | 99        | 23.07       | 23.09       | 23.05       |             |                    |          |  |
| 15              | QPSK       | 100      | 0         | 23.14       | 23.12       | 23.12       |             |                    |          |  |
| 15              | HQAM       | 1        | 0         | 22.80       | 23.00       | 23.11       |             |                    |          |  |
| 15              | HQAM       | 1        | 99        | 22.97       | 22.78       | 22.82       |             | 24                 | 0        |  |
| 15              | HQAM       | 1        | 99        | 22.82       | 23.08       | 23.05       |             |                    |          |  |
| 15              | HQAM       | 50       | 0         | 23.31       | 23.07       | 23.07       |             |                    |          |  |
| 15              | HQAM       | 50       | 99        | 23.05       | 23.12       | 21.67       |             | 23                 | 1        |  |
| 15              | HQAM       | 50       | 99        | 22.11       | 21.89       | 22.08       |             |                    |          |  |
| 15              | HQAM       | 100      | 0         | 22.26       | 22.26       | 22.26       |             |                    |          |  |
| 15              | HQAM       | 1        | 0         | 22.08       | 22.09       | 22.18       |             |                    |          |  |
| 15              | HQAM       | 1        | 99        | 22.00       | 21.93       | 22.10       |             | 23                 | 1        |  |
| 15              | HQAM       | 1        | 99        | 22.11       | 22.14       | 22.14       |             |                    |          |  |
| 15              | HQAM       | 50       | 0         | 21.12       | 21.42       | 21.42       |             |                    |          |  |
| 15              | HQAM       | 50       | 99        | 21.30       | 21.38       | 21.45       |             |                    |          |  |
| 15              | HQAM       | 50       | 100       | 21.36       | 21.38       | 21.45       |             | 23                 | 2        |  |
| 15              | HQAM       | 1        | 0         | 21.70       | 21.59       | 21.51       |             |                    |          |  |
| 15              | HQAM       | 1        | 99        | 21.25       | 21.25       | 21.25       |             |                    |          |  |
| 15              | HQAM       | 1        | 99        | 18.43       | 18.33       | 18.50       |             |                    |          |  |
| 15              | HQAM       | 50       | 0         | 18.37       | 18.43       | 18.38       |             | 23                 | 0        |  |
| 15              | HQAM       | 50       | 99        | 18.40       | 18.40       | 18.50       |             |                    |          |  |
| 15              | HQAM       | 50       | 99        | 18.37       | 18.38       | 18.51       |             |                    |          |  |
| 15              | HQAM       | 50       | 100       | 18.23       | 18.18       | 18.21       |             | 23                 | 4        |  |
| 15              | HQAM       | 100      | 0         | 18.23       | 18.40       | 18.38       |             |                    |          |  |
| 15              | HQAM       | 100      | 0         | 18.43       | 18.37       | 18.43       |             |                    |          |  |
| Channel         |            |          |           | 139172      | 139172      | 139172      | 139425      |                    |          |  |
| Frequency (MHz) |            |          |           | 684         | 661.5       | 661.5       |             | Turn-on time (dBm) | MPR (dB) |  |
| 10              | QPSK       | 1        | 0         | 23.21       | 23.09       | 23.04       |             |                    |          |  |
| 10              | QPSK       | 1        | 99        | 23.02       | 23.08       | 23.11       |             | 24                 | 0        |  |
| 10              | QPSK       | 1        | 99        | 23.10       | 23.08       | 23.08       |             |                    |          |  |
| 10              | QPSK       | 20       | 0         | 23.01       | 23.05       | 23.08       |             |                    |          |  |
| 10              | QPSK       | 20       | 99        | 23.02       | 23.23       | 23.08       |             | 24                 | 0        |  |
| 10              | QPSK       | 20       | 99        | 22.94       | 23.18       | 23.08       |             |                    |          |  |
| 10              | QPSK       | 50       | 0         | 22.81       | 22.85       | 23.03       |             |                    |          |  |
| 10              | HQAM       | 1        | 0         | 22.97       | 22.77       | 23.04       |             |                    |          |  |
| 10              | HQAM       | 1        | 99        | 22.82       | 22.98       | 23.08       |             | 24                 | 0        |  |
| 10              | HQAM       | 1        | 99        | 22.81       | 22.98       | 23.08       |             |                    |          |  |
| 10              | HQAM       | 20       | 0         | 22.05       | 22.08       | 22.36       |             |                    |          |  |
| 10              | HQAM       | 20       | 99        | 22.12       | 22.12       | 22.36       |             | 23                 | 1        |  |
| 10              | HQAM       | 20       | 99        | 22.23       | 21.90       | 22.01       |             |                    |          |  |
| 10              | HQAM       | 50       | 0         | 22.42       | 22.30       | 22.32       |             |                    |          |  |
| 10              | HQAM       | 50       | 99        | 22.00       | 22.06       | 22.21       |             |                    |          |  |
| 10              | HQAM       | 50       | 99        | 22.12       | 22.12       | 22.21       |             | 23                 | 1        |  |
| 10              | HQAM       | 1        | 0         | 22.02       | 21.96       | 22.05       |             |                    |          |  |
| 10              | HQAM       | 20       | 0         | 21.37       | 21.17       | 21.52       |             |                    |          |  |
| 10              | HQAM       | 20       | 99        | 21.27       | 21.24       | 21.24       |             | 23                 | 2        |  |
| 10              | HQAM       | 20       | 99        | 21.41       | 21.41       | 21.55       |             |                    |          |  |
| 10              | HQAM       | 50       | 0         | 21.60       | 21.19       | 21.47       |             |                    |          |  |
| 10              | HQAM       | 50       | 99        | 21.36       | 21.36       | 21.52       |             |                    |          |  |
| 10              | HQAM       | 1        | 0         | 19.27       | 19.21       | 19.21       |             | 23                 | 4        |  |
| 10              | HQAM       | 1        | 99        | 18.52       | 18.52       | 18.50       |             |                    |          |  |
| 10              | HQAM       | 20       | 0         | 18.27       | 18.29       | 18.15       |             |                    |          |  |
| 10              | HQAM       | 20       | 99        | 18.41       | 18.41       | 18.42       |             | 23                 | 4        |  |
| 10              | HQAM       | 20       | 99        | 18.25       | 18.32       | 18.40       |             |                    |          |  |
| 10              | HQAM       | 20       | 100       | 18.35       | 18.42       | 18.40       |             |                    |          |  |
| 10              | HQAM       | 50       | 0         | 18.46       | 18.40       | 18.38       |             |                    |          |  |
| Channel         |            |          |           | 139225      | 139225      | 139225      | 139225      |                    |          |  |
| Frequency (MHz) |            |          |           | 684.5       | 666.5       | 666.5       |             | Turn-on time (dBm) | MPR (dB) |  |
| 5               | QPSK       | 1        | 0         | 23.00       | 23.20       | 23.50       |             |                    |          |  |
| 5               | QPSK       | 1        | 12        | 23.18       | 23.06       | 23.26       |             | 24                 | 0        |  |
| 5               | QPSK       | 1        | 12        | 23.02       | 23.18       | 23.26       |             |                    |          |  |
| 5               | QPSK       | 12       | 7         | 23.09       | 23.09       | 23.21       |             | 23                 | 0        |  |
| 5               | QPSK       | 12       | 7         | 23.13       | 23.22       | 23.21       |             |                    |          |  |
| 5               | QPSK       | 12       | 13        | 23.05       | 23.07       | 23.18       |             |                    |          |  |
| 5               | QPSK       | 12       | 13        | 23.17       | 23.17       | 23.26       |             | 24                 | 0        |  |
| 5               | HQAM       | 1        | 0         | 23.07       | 22.90       | 23.22       |             |                    |          |  |
| 5               | HQAM       | 1        | 12        | 23.05       | 23.22       | 23.11       |             |                    |          |  |
| 5               | HQAM       | 1        | 12        | 23.10       | 23.28       | 23.28       |             | 23                 | 0        |  |
| 5               | HQAM       | 12       | 7         | 23.10       | 23.20       | 23.28       |             |                    |          |  |
| 5               | HQAM       | 12       | 7         | 23.09       | 22.17       | 23.10       |             |                    |          |  |
| 5               | HQAM       | 12       | 13        | 22.22       | 22.08       | 21.83       |             | 23                 | 1        |  |
| 5               | HQAM       | 12       | 13        | 22.27       | 22.17       | 22.17       |             |                    |          |  |
| 5               | HQAM       | 1        | 0         | 22.13       | 22.24       | 22.28       |             |                    |          |  |
| 5               | HQAM       | 1        | 12        | 22.03       | 22.29       | 22.26       |             | 23                 | 28       |  |
| 5               | HQAM       | 1        | 12        | 22.25       | 22.25       | 22.25       |             |                    |          |  |
| 5               | HQAM       | 12       | 0         | 21.25       | 21.40       | 21.40       |             |                    |          |  |
| 5               | HQAM       | 12       | 7         | 21.30       | 21.39       | 21.53       |             | 23                 | 2        |  |
| 5               | HQAM       | 12       | 13        | 21.38       | 21.40       | 21.38       |             |                    |          |  |
| 5               | HQAM       | 12       | 13        | 21.05       | 21.21       | 21.43       |             | 23                 | 4        |  |
| 5               | HQAM       | 1        | 0         | 18.36       | 18.36       | 18.31       |             |                    |          |  |
| 5               | HQAM       | 1        | 12        | 18.30       | 18.49       | 18.27       |             |                    |          |  |
| 5               | HQAM       | 1        | 12        | 18.38       | 18.38       | 18.40       |             | 23                 | 4        |  |
| 5               | HQAM       | 12       | 0         | 18.33       | 18.38       | 18.38       |             |                    |          |  |
| 5               | HQAM       | 12       | 7         | 18.23       | 18.17       | 18.40       |             |                    |          |  |
| 5               | HQAM       | 12       | 13        | 18.26       | 18.50       | 18.40       |             | 23                 | 4        |  |
| 5               | HQAM       | 1        | 0         | 18.21       | 18.00       | 18.15       |             |                    |          |  |

[illegible]

| Band 38_Ant 1   |            |         |           |                       |                        |                        |                    |           |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------|------------------------|--------------------|-----------|--|--|--|--|
| Ant. (MHz)      | Modulation | RF Rate | RF Offset | Power Low Ch. / Freq. | Power High Ch. / Freq. | Power High Ch. / Freq. | Turn-up time (sec) | APRS (dB) |  |  |  |  |
| Channel         |            |         |           |                       |                        |                        |                    |           |  |  |  |  |
| Frequency (MHz) |            |         |           | 37500                 | 39000                  | 39150                  |                    |           |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 21.01                 | 20.88                  | 20.82                  | 22.2               | 0         |  |  |  |  |
| 20              | QPSK       | 1       | 48        | 21.02                 | 21.07                  | 21.12                  |                    |           |  |  |  |  |
| 20              | QPSK       | 50      | 80        | 20.94                 | 20.89                  | 20.88                  |                    |           |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 21.01                 | 20.92                  | 20.95                  |                    |           |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 21.01                 | 21.05                  | 21.07                  | 22.2               | 0         |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 20.95                 | 21.01                  | 20.94                  |                    |           |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 20.97                 | 21.03                  | 20.99                  |                    |           |  |  |  |  |
| 20              | HQAM       | 1       | 0         | 20.95                 | 20.87                  | 20.89                  |                    |           |  |  |  |  |
| 20              | HQAM       | 1       | 48        | 21.03                 | 21.06                  | 21.09                  | 22.2               | 0         |  |  |  |  |
| 20              | HQAM       | 50      | 80        | 20.91                 | 20.91                  | 20.93                  |                    |           |  |  |  |  |
| 20              | HQAM       | 50      | 0         | 21.01                 | 20.92                  | 20.88                  |                    |           |  |  |  |  |
| 20              | HQAM       | 50      | 24        | 20.95                 | 20.99                  | 20.93                  |                    |           |  |  |  |  |
| 20              | HQAM       | 50      | 50        | 21.06                 | 20.97                  | 20.79                  | 22.2               | 0         |  |  |  |  |
| 20              | HQAM       | 100     | 0         | 21.02                 | 21.03                  | 20.85                  |                    |           |  |  |  |  |
| 20              | HQAM       | 1       | 0         | 20.96                 | 21.04                  | 20.85                  |                    |           |  |  |  |  |
| 20              | HQAM       | 1       | 48        | 21.00                 | 20.93                  | 20.82                  |                    |           |  |  |  |  |
| 20              | HQAM       | 1       | 80        | 20.94                 | 21.02                  | 20.85                  | 22                 | 0.2       |  |  |  |  |
| 20              | HQAM       | 50      | 0         | 20.97                 | 20.93                  | 20.92                  |                    |           |  |  |  |  |
| 20              | HQAM       | 50      | 24        | 20.43                 | 20.21                  | 20.16                  |                    |           |  |  |  |  |
| 20              | HQAM       | 50      | 50        | 20.30                 | 20.27                  | 20.15                  |                    |           |  |  |  |  |
| 20              | HQAM       | 100     | 0         | 20.30                 | 20.25                  | 20.19                  | 19                 | 3.2       |  |  |  |  |
| 20              | ZS3GAM     | 1       | 0         | 18.14                 | 18.01                  | 17.81                  |                    |           |  |  |  |  |
| 20              | ZS3GAM     | 1       | 48        | 17.93                 | 17.89                  | 17.88                  |                    |           |  |  |  |  |
| 20              | ZS3GAM     | 50      | 80        | 17.79                 | 17.89                  | 17.84                  |                    |           |  |  |  |  |
| 20              | ZS3GAM     | 100     | 0         | 17.93                 | 17.84                  | 17.79                  |                    |           |  |  |  |  |
| Channel         |            |         |           |                       |                        |                        |                    |           |  |  |  |  |
| Frequency (MHz) |            |         |           | 37500                 | 39000                  | 39175                  |                    |           |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 20.74                 | 20.80                  | 20.66                  | 22.2               | 0         |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 21.04                 | 20.88                  | 20.81                  |                    |           |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 20.88                 | 20.92                  | 20.83                  |                    |           |  |  |  |  |
| 15              | QPSK       | 50      | 80        | 20.97                 | 20.92                  | 20.79                  |                    |           |  |  |  |  |
| 15              | QPSK       | 50      | 0         | 20.88                 | 21.05                  | 20.85                  | 22.2               | 0         |  |  |  |  |
| 15              | QPSK       | 50      | 39        | 20.85                 | 21.01                  | 20.84                  |                    |           |  |  |  |  |
| 15              | HQAM       | 1       | 0         | 20.92                 | 20.86                  | 20.92                  |                    |           |  |  |  |  |
| 15              | HQAM       | 1       | 37        | 20.90                 | 21.03                  | 20.75                  |                    |           |  |  |  |  |
| 15              | HQAM       | 1       | 74        | 20.89                 | 20.97                  | 20.49                  | 22.2               | 0         |  |  |  |  |
| 15              | HQAM       | 50      | 0         | 20.85                 | 20.81                  | 20.79                  |                    |           |  |  |  |  |
| 15              | HQAM       | 50      | 20        | 20.89                 | 20.88                  | 20.89                  |                    |           |  |  |  |  |
| 15              | HQAM       | 50      | 39        | 20.94                 | 20.79                  | 20.67                  |                    |           |  |  |  |  |
| 15              | HQAM       | 50      | 80        | 20.93                 | 20.92                  | 20.83                  | 22.2               | 0         |  |  |  |  |
| 15              | HQAM       | 1       | 0         | 20.77                 | 21.03                  | 20.58                  |                    |           |  |  |  |  |
| 15              | HQAM       | 1       | 37        | 20.88                 | 21.01                  | 20.67                  |                    |           |  |  |  |  |
| 15              | HQAM       | 50      | 0         | 20.85                 | 20.83                  | 20.84                  |                    |           |  |  |  |  |
| 15              | HQAM       | 50      | 20        | 20.46                 | 20.03                  | 20.05                  | 22                 | 0.2       |  |  |  |  |
| 15              | HQAM       | 50      | 39        | 20.37                 | 20.12                  | 20.10                  |                    |           |  |  |  |  |
| 15              | HQAM       | 50      | 80        | 20.35                 | 20.30                  | 20.29                  |                    |           |  |  |  |  |
| 15              | HQAM       | 1       | 0         | 20.35                 | 20.30                  | 20.29                  |                    |           |  |  |  |  |
| 15              | ZS3GAM     | 1       | 0         | 18.10                 | 17.83                  | 17.38                  | 19                 | 3.2       |  |  |  |  |
| 15              | ZS3GAM     | 1       | 37        | 18.01                 | 18.07                  | 17.87                  |                    |           |  |  |  |  |
| 15              | ZS3GAM     | 50      | 80        | 17.77                 | 17.96                  | 17.92                  |                    |           |  |  |  |  |
| 15              | ZS3GAM     | 50      | 0         | 17.84                 | 18.02                  | 17.79                  |                    |           |  |  |  |  |
| 15              | ZS3GAM     | 39      | 20        | 17.89                 | 17.96                  | 17.71                  | 19                 | 3.2       |  |  |  |  |
| 15              | ZS3GAM     | 50      | 80        | 17.89                 | 17.96                  | 17.85                  |                    |           |  |  |  |  |
| 15              | ZS3GAM     | 75      | 0         | 17.74                 | 17.90                  | 17.68                  |                    |           |  |  |  |  |
| Channel         |            |         |           |                       |                        |                        |                    |           |  |  |  |  |
| Frequency (MHz) |            |         |           | 37500                 | 39000                  | 39050                  |                    |           |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 20.70                 | 20.48                  | 20.48                  | 22.2               | 0         |  |  |  |  |
| 10              | QPSK       | 1       | 26        | 21.00                 | 20.89                  | 21.00                  |                    |           |  |  |  |  |
| 10              | QPSK       | 1       | 40        | 20.85                 | 20.98                  | 20.57                  |                    |           |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 20.98                 | 20.93                  | 20.89                  |                    |           |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 20.98                 | 20.92                  | 20.89                  | 22.2               | 0         |  |  |  |  |
| 10              | QPSK       | 25      | 26        | 20.83                 | 20.81                  | 20.81                  |                    |           |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 20.96                 | 20.93                  | 20.93                  |                    |           |  |  |  |  |
| 10              | HQAM       | 1       | 0         | 20.84                 | 20.95                  | 20.86                  |                    |           |  |  |  |  |
| 10              | HQAM       | 1       | 26        | 20.95                 | 21.05                  | 20.73                  | 22.2               | 0         |  |  |  |  |
| 10              | HQAM       | 1       | 49        | 20.87                 | 20.53                  | 20.53                  |                    |           |  |  |  |  |
| 10              | HQAM       | 25      | 0         | 20.99                 | 20.91                  | 20.89                  |                    |           |  |  |  |  |
| 10              | HQAM       | 25      | 12        | 20.79                 | 20.86                  | 20.83                  |                    |           |  |  |  |  |
| 10              | HQAM       | 25      | 26        | 21.00                 | 20.86                  | 20.76                  | 22.2               | 0         |  |  |  |  |
| 10              | HQAM       | 50      | 0         | 20.92                 | 20.90                  | 20.76                  |                    |           |  |  |  |  |
| 10              | HQAM       | 50      | 0         | 20.72                 | 20.88                  | 20.49                  |                    |           |  |  |  |  |
| 10              | HQAM       | 1       | 26        | 20.88                 | 20.89                  | 20.86                  |                    |           |  |  |  |  |
| 10              | HQAM       | 1       | 49        | 20.85                 | 20.91                  | 20.83                  | 22                 | 0.2       |  |  |  |  |
| 10              | HQAM       | 25      | 0         | 20.30                 | 20.30                  | 20.30                  |                    |           |  |  |  |  |
| 10              | HQAM       | 25      | 12        | 20.38                 | 20.24                  | 20.12                  |                    |           |  |  |  |  |
| 10              | HQAM       | 25      | 26        | 20.20                 | 20.09                  | 20.18                  |                    |           |  |  |  |  |
| 10              | ZS3GAM     | 1       | 0         | 17.90                 | 18.02                  | 17.86                  | 19                 | 3.2       |  |  |  |  |
| 10              | ZS3GAM     | 1       | 26        | 17.86                 | 18.07                  | 17.79                  |                    |           |  |  |  |  |
| 10              | ZS3GAM     | 25      | 0         | 17.90                 | 18.04                  | 17.76                  |                    |           |  |  |  |  |
| 10              | ZS3GAM     | 25      | 12        | 17.63                 | 17.80                  | 17.71                  |                    |           |  |  |  |  |
| 10              | ZS3GAM     | 25      | 26        | 17.60                 | 17.81                  | 17.67                  | 19                 | 3.2       |  |  |  |  |
| 10              | ZS3GAM     | 50      | 0         | 17.73                 | 17.80                  | 17.54                  |                    |           |  |  |  |  |
| Channel         |            |         |           |                       |                        |                        |                    |           |  |  |  |  |
| Frequency (MHz) |            |         |           | 37575                 | 39000                  | 39012.5                |                    |           |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 20.77                 | 20.90                  | 20.68                  | 22.2               | 0         |  |  |  |  |
| 5               | QPSK       | 1       | 18        | 20.92                 | 21.00                  | 20.94                  |                    |           |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 21.01                 | 20.91                  | 20.83                  |                    |           |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 20.87                 | 20.88                  | 20.57                  |                    |           |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 20.91                 | 21.05                  | 20.87                  | 22.2               | 0         |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 20.87                 | 20.89                  | 20.87                  |                    |           |  |  |  |  |
| 5               | QPSK       | 26      | 0         | 20.84                 | 20.98                  | 20.98                  |                    |           |  |  |  |  |
| 5               | HQAM       | 1       | 0         | 20.83                 | 20.84                  | 20.89                  |                    |           |  |  |  |  |
| 5               | HQAM       | 12      | 0         | 20.93                 | 20.86                  | 20.79                  | 22.2               | 0         |  |  |  |  |
| 5               | HQAM       | 1       | 24        | 20.81                 | 20.80                  | 20.49                  |                    |           |  |  |  |  |
| 5               | HQAM       | 12      | 12        | 20.99                 | 20.97                  | 20.79                  |                    |           |  |  |  |  |
| 5               | HQAM       | 12      | 7         | 20.79                 | 20.93                  | 20.90                  |                    |           |  |  |  |  |
| 5               | HQAM       | 12      | 13        | 21.03                 | 20.79                  | 20.78                  | 22.2               | 0         |  |  |  |  |
| 5               | HQAM       | 25      | 0         | 20.92                 | 20.90                  | 20.83                  |                    |           |  |  |  |  |
| 5               | HQAM       | 1       | 0         | 20.77                 | 21.01                  | 20.66                  |                    |           |  |  |  |  |
| 5               | HQAM       | 1       | 12        | 20.93                 | 20.87                  | 20.55                  |                    |           |  |  |  |  |
| 5               | HQAM       | 1       | 24        | 20.82                 | 20.76                  | 20.53                  | 22                 | 0.2       |  |  |  |  |
| 5               | HQAM       | 12      | 0         | 20.36                 | 20.36                  | 20.18                  |                    |           |  |  |  |  |
| 5               | HQAM       | 12      | 7         | 20.31                 | 20.10                  | 20.09                  |                    |           |  |  |  |  |
| 5               | HQAM       | 12      | 13        | 20.14                 | 20.27                  | 20.14                  |                    |           |  |  |  |  |
| 5               | HQAM       | 25      | 0         | 20.15                 | 20.22                  | 20.14                  | 19                 | 3.2       |  |  |  |  |
| 5               | HQAM       | 1       | 0         | 17.60                 | 18.02                  | 17.62                  |                    |           |  |  |  |  |
| 5               | ZS3GAM     | 1       | 12        | 17.62                 | 17.86                  | 17.66                  |                    |           |  |  |  |  |
| 5               | ZS3GAM     | 12      | 7         | 17.60                 | 17.86                  | 17.60                  |                    |           |  |  |  |  |
| 5               | ZS3GAM     | 12      | 13        | 17.63                 | 17.66                  | 17.66                  | 19                 | 3.2       |  |  |  |  |
| 5               | ZS3GAM     | 25      | 0         | 17.90                 | 17.46                  | 17.66                  |                    |           |  |  |  |  |

| Band 38_Ant 2   |            |         |           |                   |                    |                      |                    |           |    |   |
|-----------------|------------|---------|-----------|-------------------|--------------------|----------------------|--------------------|-----------|----|---|
| RF (MHz)        | Modulation | RF Rate | RF Offset | Power Low Ch. (W) | Power High Ch. (W) | Power High Ch. (dBm) | Turn-up time (sec) | APRS (dB) |    |   |
| Channel         |            |         |           |                   |                    |                      |                    |           |    |   |
| Frequency (MHz) |            |         |           | 37600             | 38000              | 38150                |                    |           |    |   |
| 20              | QPSK       | 1       | 0         | 22.71             | 22.61              | 22.58                |                    |           | 24 | 0 |
| 20              | QPSK       | 1       | 48        | 22.65             | 22.57              | 22.57                |                    |           |    |   |
| 20              | QPSK       | 50      | 80        | 22.72             | 22.80              | 22.83                |                    |           |    |   |
| 20              | QPSK       | 50      | 0         | 22.58             | 22.82              | 22.52                |                    |           |    |   |
| 20              | QPSK       | 50      | 24        | 22.52             | 22.05              | 22.04                |                    |           | 24 | 0 |
| 20              | QPSK       | 50      | 50        | 22.78             | 22.80              | 22.83                |                    |           |    |   |
| 20              | QPSK       | 100     | 0         | 22.80             | 22.80              | 22.81                |                    |           |    |   |
| 20              | HQAM       | 1       | 0         | 22.78             | 22.85              | 22.34                |                    |           |    |   |
| 20              | HQAM       | 1       | 48        | 22.79             | 22.78              | 22.59                |                    |           | 24 | 0 |
| 20              | HQAM       | 50      | 80        | 22.76             | 22.85              | 22.35                |                    |           |    |   |
| 20              | HQAM       | 50      | 0         | 22.33             | 22.78              | 22.24                |                    |           |    |   |
| 20              | HQAM       | 50      | 24        | 22.85             | 22.78              | 22.69                |                    |           |    |   |
| 20              | HQAM       | 100     | 0         | 22.82             | 22.82              | 22.52                |                    |           | 24 | 0 |
| 20              | HQAM       | 1       | 0         | 22.56             | 22.61              | 22.30                |                    |           |    |   |
| 20              | HQAM       | 1       | 48        | 22.88             | 22.7               |                      |                    |           | 24 | 0 |
| 20              | HQAM       | 1       | 96        | 22.72             | 22.70              | 22.46                |                    |           |    |   |
| 20              | HQAM       | 50      | 0         | 21.84             | 21.80              | 21.57                |                    |           | 22 | 1 |
| 20              | HQAM       | 50      | 24        | 22.01             | 21.97              | 21.73                |                    |           |    |   |
| 20              | HQAM       | 50      | 50        | 21.89             | 21.77              | 21.53                |                    |           |    |   |
| 20              | HQAM       | 100     | 0         | 21.82             | 21.50              | 21.71                |                    |           |    |   |
| 20              | HQAM       | 1       | 0         | 22.48             | 22.28              | 22.09                |                    |           | 20 | 4 |
| 20              | HQAM       | 1       | 48        | 22.44             | 22.11              | 21.77                |                    |           |    |   |
| 20              | HQAM       | 1       | 96        | 22.35             | 22.08              | 21.86                |                    |           |    |   |
| 20              | HQAM       | 50      | 0         | 22.23             | 22.28              | 21.95                |                    |           |    |   |
| 20              | HQAM       | 50      | 24        | 22.35             | 22.35              | 22.02                |                    |           | 20 | 4 |
| 20              | HQAM       | 50      | 50        | 22.33             | 22.33              | 22.00                |                    |           |    |   |
| 20              | HQAM       | 50      | 100       | 22.31             | 22.31              | 21.97                |                    |           |    |   |
| 20              | HQAM       | 100     | 0         | 22.02             | 21.03              | 21.08                |                    |           |    |   |
| Channel         |            |         |           |                   |                    |                      |                    |           |    |   |
| Frequency (MHz) |            |         |           | 37600             | 38000              | 38175                |                    |           |    |   |
| 15              | QPSK       | 1       | 0         | 22.43             | 22.30              | 22.23                |                    |           | 24 | 0 |
| 15              | QPSK       | 1       | 32        | 22.65             | 22.31              | 22.73                |                    |           |    |   |
| 15              | QPSK       | 1       | 74        | 22.50             | 22.43              | 22.41                |                    |           |    |   |
| 15              | QPSK       | 1       | 116       | 22.56             | 22.36              | 22.36                |                    |           |    |   |
| 15              | QPSK       | 36      | 20        | 22.68             | 22.72              | 22.54                |                    |           | 24 | 0 |
| 15              | QPSK       | 36      | 56        | 22.83             | 22.81              | 22.64                |                    |           |    |   |
| 15              | QPSK       | 36      | 92        | 22.73             | 22.73              | 22.58                |                    |           |    |   |
| 15              | HQAM       | 1       | 0         | 22.00             | 22.05              | 22.34                |                    |           |    |   |
| 15              | HQAM       | 1       | 32        | 22.54             | 22.67              | 22.60                |                    |           | 24 | 0 |
| 15              | HQAM       | 1       | 74        | 22.78             | 22.80              | 22.77                |                    |           |    |   |
| 15              | HQAM       | 1       | 116       | 22.94             | 22.91              | 22.87                |                    |           |    |   |
| 15              | HQAM       | 36      | 20        | 22.37             | 22.76              | 22.58                |                    |           |    |   |
| 15              | HQAM       | 36      | 56        | 22.84             | 22.58              | 22.38                |                    |           | 24 | 0 |
| 15              | HQAM       | 36      | 92        | 22.06             | 22.33              | 22.13                |                    |           |    |   |
| 15              | HQAM       | 1       | 0         | 22.03             | 22.67              | 22.50                |                    |           |    |   |
| 15              | HQAM       | 1       | 32        | 22.61             | 22.53              | 22.78                |                    |           |    |   |
| 15              | HQAM       | 36      | 20        | 22.44             | 22.80              | 22.77                |                    |           | 24 | 0 |
| 15              | HQAM       | 36      | 56        | 22.86             | 22.86              | 22.86                |                    |           |    |   |
| 15              | HQAM       | 36      | 92        | 22.62             | 22.62              | 21.40                |                    |           |    |   |
| 15              | HQAM       | 36      | 100       | 22.60             | 21.72              | 21.44                |                    |           |    |   |
| 15              | HQAM       | 36      | 108       | 22.71             | 21.71              | 21.40                |                    |           | 22 | 1 |
| 15              | HQAM       | 1       | 0         | 19.14             | 19.07              | 18.97                |                    |           |    |   |
| 15              | HQAM       | 1       | 32        | 19.60             | 19.18              | 18.95                |                    |           |    |   |
| 15              | HQAM       | 1       | 64        | 19.56             | 19.56              | 18.96                |                    |           |    |   |
| 15              | HQAM       | 36      | 0         | 19.21             | 19.18              | 19.14                |                    |           | 20 | 4 |
| 15              | HQAM       | 36      | 20        | 19.33             | 19.07              | 19.15                |                    |           |    |   |
| 15              | HQAM       | 36      | 56        | 19.04             | 19.07              | 19.04                |                    |           |    |   |
| 15              | HQAM       | 36      | 92        | 19.00             | 19.00              | 18.90                |                    |           |    |   |
| Channel         |            |         |           |                   |                    |                      |                    |           |    |   |
| Frequency (MHz) |            |         |           | 37600             | 38000              | 38050                |                    |           |    |   |
| 10              | QPSK       | 1       | 0         | 22.51             | 22.61              | 22.61                |                    |           | 24 | 0 |
| 10              | QPSK       | 1       | 48        | 22.59             | 22.51              | 22.41                |                    |           |    |   |
| 10              | QPSK       | 1       | 96        | 22.64             | 22.58              | 22.57                |                    |           |    |   |
| 10              | QPSK       | 25      | 0         | 22.35             | 22.68              | 22.48                |                    |           |    |   |
| 10              | QPSK       | 25      | 40        | 22.52             | 22.62              | 22.62                |                    |           | 24 | 0 |
| 10              | QPSK       | 25      | 80        | 22.63             | 22.76              | 22.76                |                    |           |    |   |
| 10              | QPSK       | 50      | 0         | 22.52             | 22.78              | 22.63                |                    |           |    |   |
| 10              | HQAM       | 1       | 0         | 22.70             | 22.92              | 22.68                |                    |           |    |   |
| 10              | HQAM       | 1       | 40        | 22.84             | 22.84              | 22.84                |                    |           | 24 | 0 |
| 10              | HQAM       | 1       | 80        | 22.81             | 22.77              | 22.34                |                    |           |    |   |
| 10              | HQAM       | 25      | 0         | 22.19             | 22.55              | 22.58                |                    |           |    |   |
| 10              | HQAM       | 25      | 40        | 22.68             | 22.68              | 22.68                |                    |           |    |   |
| 10              | HQAM       | 25      | 80        | 22.77             | 22.77              | 22.43                |                    |           | 24 | 0 |
| 10              | HQAM       | 50      | 0         | 22.83             | 22.79              | 22.48                |                    |           |    |   |
| 10              | HQAM       | 50      | 40        | 22.84             | 22.79              | 22.48                |                    |           |    |   |
| 10              | HQAM       | 50      | 80        | 22.84             | 22.84              | 22.48                |                    |           |    |   |
| 10              | HQAM       | 25      | 0         | 21.41             | 21.73              | 21.58                |                    |           | 22 | 1 |
| 10              | HQAM       | 25      | 40        | 21.41             | 21.73              | 21.58                |                    |           |    |   |
| 10              | HQAM       | 25      | 80        | 21.41             | 21.73              | 21.58                |                    |           |    |   |
| 10              | HQAM       | 25      | 100       | 21.41             | 21.73              | 21.58                |                    |           |    |   |
| 10              | HQAM       | 50      | 0         | 21.84             | 21.62              | 21.61                |                    |           | 20 | 4 |
| 10              | HQAM       | 50      | 40        | 21.70             | 21.84              | 21.60                |                    |           |    |   |
| 10              | HQAM       | 50      | 80        | 21.61             | 21.61              | 21.61                |                    |           |    |   |
| 10              | HQAM       | 50      | 100       | 21.55             | 21.55              | 21.55                |                    |           |    |   |
| 10              | HQAM       | 1       | 0         | 19.86             | 19.86              | 19.86                |                    |           | 20 | 4 |
| 10              | HQAM       | 1       | 40        | 19.86             | 19.86              | 19.86                |                    |           |    |   |
| 10              | HQAM       | 25      | 0         | 19.19             | 19.24              | 19.25                |                    |           |    |   |
| 10              | HQAM       | 25      | 40        | 19.19             | 19.24              | 19.25                |                    |           |    |   |
| 10              | HQAM       | 25      | 80        | 19.19             | 19.24              | 19.25                |                    |           | 20 | 4 |
| 10              | HQAM       | 25      | 100       | 19.19             | 19.24              | 19.25                |                    |           |    |   |
| 10              | HQAM       | 50      | 0         | 19.00             | 19.00              | 19.00                |                    |           |    |   |
| 10              | HQAM       | 50      | 40        | 19.95             | 19.93              | 19.93                |                    |           |    |   |
| Channel         |            |         |           |                   |                    |                      |                    |           |    |   |
| Frequency (MHz) |            |         |           | 37600             | 38000              | 38175                |                    |           |    |   |
| 5               | QPSK       | 1       | 0         | 22.48             | 22.71              | 22.68                |                    |           | 24 | 0 |
| 5               | QPSK       | 1       | 12        | 22.68             | 22.79              | 22.40                |                    |           |    |   |
| 5               | QPSK       | 12      | 24        | 22.68             | 22.79              | 22.40                |                    |           |    |   |
| 5               | QPSK       | 12      | 36        | 22.65             | 22.79              | 22.43                |                    |           |    |   |
| 5               | QPSK       | 12      | 48        | 22.64             | 22.64              | 22.72                |                    |           | 24 | 0 |
| 5               | QPSK       | 12      | 60        | 22.72             | 22.67              | 22.38                |                    |           |    |   |
| 5               | QPSK       | 12      | 72        | 22.80             | 22.81              | 22.81                |                    |           |    |   |
| 5               | HQAM       | 1       | 0         | 22.67             | 22.85              | 22.15                |                    |           |    |   |
| 5               | HQAM       | 1       | 12        | 22.60             | 22.72              | 22.51                |                    |           | 24 | 0 |
| 5               | HQAM       | 1       | 24        | 22.60             | 22.72              | 22.51                |                    |           |    |   |
| 5               | HQAM       | 1       | 36        | 22.62             | 22.68              | 22.68                |                    |           |    |   |
| 5               | HQAM       | 12      | 0         | 22.22             | 22.98              | 22.22                |                    |           |    |   |
| 5               | HQAM       | 12      | 12        | 22.46             | 22.46              | 22.46                |                    |           | 24 | 0 |
| 5               | HQAM       | 12      | 24        | 22.74             | 22.68              | 22.18                |                    |           |    |   |
| 5               | HQAM       | 12      | 36        | 22.74             | 22.68              | 22.18                |                    |           |    |   |
| 5               | HQAM       | 1       | 0         | 22.43             | 22.70              | 22.70                |                    |           |    |   |
| 5               | HQAM       | 1       | 12        | 22.80             | 22.51              | 22.83                |                    |           | 24 | 0 |
| 5               | HQAM       | 1       | 24        | 22.80             | 22.51              | 22.83                |                    |           |    |   |
| 5               | HQAM       | 1       | 36        | 22.80             | 22.51              | 22.83                |                    |           |    |   |
| 5               | HQAM       | 12      | 0         | 21.90             | 21.93              | 21.91                |                    |           |    |   |
| 5               | HQAM       | 12      | 7         | 21.71             | 21.80              | 21.60                |                    |           | 22 | 1 |
| 5               | HQAM       | 12      | 15        | 21.84             | 21.62              | 21.58                |                    |           |    |   |
| 5               | HQAM       | 12      | 23        | 21.86             | 21.62              | 21.58                |                    |           |    |   |
| 5               | HQAM       | 1       | 0         | 19.02             | 19.16              | 19.02                |                    |           |    |   |
| 5               | HQAM       | 1       | 12        | 19.05             | 19.13              | 19.05                |                    |           | 20 | 4 |
| 5               | HQAM       | 1       | 24        | 19.05             | 19.13              | 19.05                |                    |           |    |   |
| 5               | HQAM       | 12      | 7         | 19.90             | 19.04              | 19.00                |                    |           |    |   |
| 5               | HQAM       | 12      | 15        | 19.10             | 19.12              | 19.05                |                    |           |    |   |

| Band 41 (HPUE)_Ant 1 |                 |         |           |             |             |             |             |             |             |             |             |             |             |             |
|----------------------|-----------------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| SRB                  | Modulation      | RB Size | RB Offset | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) |
| Channel              | Frequency (MHz) | 25750   | 40185     | 46920       | 41055       | 41450       | 41845       | 42240       | 42635       | 43030       | 43425       | 43820       | 44215       | 44610       |
| 20                   | OPR1            | 1       | 5         | 22.65       | 22.64       | 22.63       | 22.62       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       |
| 20                   | OPR1            | 1       | 56        | 22.66       | 22.61       | 22.55       | 22.49       | 22.43       | 22.37       | 22.31       | 22.25       | 22.19       | 22.13       | 22.07       |
| 20                   | OPR1            | 50      | 5         | 22.62       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       | 22.53       | 22.52       |
| 20                   | OPR1            | 50      | 56        | 22.63       | 22.58       | 22.53       | 22.47       | 22.41       | 22.35       | 22.29       | 22.23       | 22.17       | 22.11       | 22.05       |
| 20                   | OPR1            | 100     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 100     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 150     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 150     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 200     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 200     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 250     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 250     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 300     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 300     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 350     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 350     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 400     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 400     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 450     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 450     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 500     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 500     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 550     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 550     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 600     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 600     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 650     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 650     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 700     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 700     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 750     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 750     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 800     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 800     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 850     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 850     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 900     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 900     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 950     | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 950     | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1000    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1000    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1050    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1050    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1100    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1100    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1150    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1150    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1200    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1200    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1250    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1250    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1300    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1300    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1350    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1350    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1400    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1400    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1450    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1450    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1500    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1500    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1550    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1550    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1600    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1600    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1650    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1650    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1700    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1700    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1750    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1750    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1800    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1800    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1850    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1850    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1900    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1900    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 1950    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 1950    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 2000    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 2000    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       | 21.98       |
| 20                   | OPR1            | 2050    | 5         | 22.62       | 22.64       | 22.63       | 22.61       | 22.60       | 22.59       | 22.58       | 22.57       | 22.56       | 22.55       | 22.54       |
| 20                   | OPR1            | 2050    | 56        | 22.63       | 22.52       | 22.46       | 22.40       | 22.34       | 22.28       | 22.22       | 22.16       | 22.10       | 22.04       |             |

| Band 41_Ant 2   |            |         |           |             |             |             |             |             |             |              |          |  |  |
|-----------------|------------|---------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|----------|--|--|
| RF (MHz)        | Modulation | RB Size | RF Offset | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Power (dBm) | Turn-on (ms) | MPR (dB) |  |  |
| Channel         |            |         |           | 36750       | 40165       | 40603       | 41050       | 41416       | 41816       |              |          |  |  |
| Frequency (MHz) |            |         |           | 2008        | 20615       | 21053       | 21616       | 22158       | 22686       |              |          |  |  |
| 20              | QPSK       | 1       | 0         | 20.76       | 20.83       | 20.80       | 20.88       | 20.88       | 20.88       |              |          |  |  |
| 15              | QPSK       | 1       | 90        | 20.76       | 20.82       | 20.87       | 20.84       | 20.84       | 20.84       | 24           | 0        |  |  |
| 20              | QPSK       | 50      | 0         | 20.77       | 20.73       | 20.74       | 20.74       | 20.74       | 20.74       |              |          |  |  |
| 15              | QPSK       | 50      | 90        | 20.73       | 20.79       | 20.80       | 20.84       | 20.84       | 20.84       | 24           | 0        |  |  |
| 20              | QPSK       | 100     | 0         | 20.74       | 20.68       | 20.66       | 20.68       | 20.68       | 20.68       |              |          |  |  |
| 20              | HQAM       | 1       | 0         | 20.63       | 20.64       | 20.78       | 20.80       | 20.80       | 20.80       |              |          |  |  |
| 20              | HQAM       | 1       | 90        | 20.71       | 20.75       | 20.80       | 20.80       | 20.80       | 20.80       | 24           | 0        |  |  |
| 20              | HQAM       | 1       | 90        | 20.84       | 20.72       | 20.81       | 20.71       | 20.71       | 20.71       |              |          |  |  |
| 20              | HQAM       | 50      | 0         | 20.51       | 20.68       | 20.63       | 20.43       | 20.43       | 20.32       |              |          |  |  |
| 15              | HQAM       | 50      | 90        | 20.76       | 20.75       | 20.81       | 20.81       | 20.81       | 20.81       | 24           | 0        |  |  |
| 20              | HQAM       | 50      | 71        | 20.84       | 20.84       | 20.81       | 20.87       | 20.87       | 20.87       |              |          |  |  |
| 20              | HQAM       | 100     | 0         | 20.51       | 20.74       | 20.72       | 20.22       | 20.22       | 20.47       |              |          |  |  |
| 20              | HQAM       | 1       | 0         | 20.56       | 20.67       | 20.81       | 20.46       | 20.46       | 20.46       |              |          |  |  |
| 15              | HQAM       | 1       | 90        | 20.88       | 20.85       | 20.86       | 20.85       | 20.85       | 20.85       | 24           | 0        |  |  |
| 20              | HQAM       | 1       | 90        | 20.77       | 20.85       | 20.80       | 20.85       | 20.85       | 20.85       |              |          |  |  |
| 20              | HQAM       | 50      | 0         | 21.04       | 21.00       | 21.04       | 21.10       | 21.10       | 21.31       |              |          |  |  |
| 15              | HQAM       | 50      | 90        | 20.81       | 20.83       | 20.86       | 20.86       | 20.86       | 20.86       | 24           | 0        |  |  |
| 20              | HQAM       | 50      | 50        | 21.05       | 21.06       | 21.06       | 21.28       | 21.28       | 21.50       |              |          |  |  |
| 20              | HQAM       | 100     | 0         | 21.04       | 21.14       | 21.14       | 21.18       | 21.20       | 21.40       |              |          |  |  |
| 20              | HQAM       | 1       | 0         | 19.46       | 19.52       | 19.46       | 19.46       | 19.46       | 19.46       |              |          |  |  |
| 15              | HQAM       | 1       | 90        | 19.38       | 19.48       | 19.48       | 19.48       | 19.48       | 19.48       | 24           | 0        |  |  |
| 20              | HQAM       | 50      | 0         | 19.46       | 19.52       | 19.47       | 19.50       | 19.50       | 19.50       |              |          |  |  |
| 20              | HQAM       | 100     | 0         | 19.88       | 19.90       | 19.82       | 19.42       | 19.42       | 19.88       |              |          |  |  |
| Channel         |            |         |           | 36750       | 40173       | 40603       | 41050       | 41416       | 41816       |              |          |  |  |
| Frequency (MHz) |            |         |           | 2008        | 20615       | 21053       | 21616       | 22158       | 22686       | Turn-on (ms) | MPR (dB) |  |  |
| 15              | QPSK       | 1       | 0         | 20.58       | 20.68       | 20.88       | 20.41       | 20.41       | 20.58       |              |          |  |  |
| 15              | QPSK       | 1       | 90        | 20.71       | 20.62       | 20.78       | 20.46       | 20.46       | 20.58       | 24           | 0        |  |  |
| 15              | QPSK       | 1       | 74        | 20.51       | 20.69       | 20.80       | 20.28       | 20.28       | 20.75       |              |          |  |  |
| 15              | QPSK       | 1       | 90        | 20.84       | 20.84       | 20.81       | 20.28       | 20.28       | 20.80       |              |          |  |  |
| 15              | QPSK       | 36      | 20        | 20.72       | 20.63       | 20.80       | 20.38       | 20.38       | 20.74       | 24           | 0        |  |  |
| 15              | QPSK       | 36      | 20        | 20.52       | 20.83       | 20.69       | 20.48       | 20.48       | 20.62       |              |          |  |  |
| 15              | QPSK       | 17      | 0         | 20.72       | 20.88       | 20.80       | 20.48       | 20.48       | 20.74       |              |          |  |  |
| 15              | HQAM       | 1       | 0         | 20.39       | 20.44       | 20.81       | 20.68       | 20.62       | 20.62       |              |          |  |  |
| 15              | HQAM       | 1       | 90        | 20.78       | 20.52       | 20.81       | 20.55       | 20.55       | 20.67       | 24           | 0        |  |  |
| 15              | HQAM       | 1       | 74        | 20.56       | 20.71       | 20.78       | 20.34       | 20.34       | 20.67       |              |          |  |  |
| 15              | HQAM       | 36      | 20        | 20.38       | 20.83       | 20.66       | 20.22       | 20.22       | 20.39       | 24           | 0        |  |  |
| 15              | HQAM       | 36      | 20        | 20.36       | 20.79       | 20.41       | 20.46       | 20.46       | 20.38       |              |          |  |  |
| 15              | HQAM       | 100     | 0         | 20.37       | 20.68       | 20.40       | 20.16       | 20.16       | 20.31       |              |          |  |  |
| 15              | HQAM       | 1       | 0         | 19.38       | 19.38       | 19.48       | 19.48       | 19.48       | 19.48       | 24           | 0        |  |  |
| 15              | HQAM       | 1       | 90        | 19.38       | 19.48       | 19.48       | 19.48       | 19.48       | 19.48       |              |          |  |  |
| 15              | HQAM       | 36      | 20        | 19.45       | 19.31       | 19.31       | 19.58       | 19.58       | 19.34       | 24           | 0        |  |  |
| 15              | HQAM       | 36      | 20        | 19.31       | 19.27       | 19.38       | 19.14       | 19.14       | 19.22       |              |          |  |  |
| 15              | HQAM       | 100     | 0         | 19.38       | 19.48       | 19.30       | 19.00       | 19.00       | 19.47       |              |          |  |  |
| Channel         |            |         |           | 36750       | 40180       | 40603       | 41050       | 41416       | 41816       |              |          |  |  |
| Frequency (MHz) |            |         |           | 2008        | 20615       | 21053       | 21616       | 22158       | 22686       | Turn-on (ms) | MPR (dB) |  |  |
| 15              | QPSK       | 1       | 0         | 20.63       | 20.66       | 20.80       | 20.33       | 20.33       | 20.49       |              |          |  |  |
| 15              | QPSK       | 1       | 90        | 20.74       | 20.65       | 20.71       | 20.39       | 20.39       | 20.49       | 24           | 0        |  |  |
| 15              | QPSK       | 1       | 48        | 20.69       | 20.57       | 20.68       | 20.35       | 20.35       | 20.69       |              |          |  |  |
| 15              | QPSK       | 23      | 0         | 20.86       | 20.80       | 20.80       | 20.35       | 20.35       | 20.48       |              |          |  |  |
| 15              | QPSK       | 23      | 90        | 20.74       | 20.76       | 20.76       | 20.39       | 20.39       | 20.48       | 24           | 0        |  |  |
| 15              | QPSK       | 23      | 24        | 20.54       | 20.74       | 20.83       | 20.31       | 20.31       | 20.54       |              |          |  |  |
| 15              | QPSK       | 50      | 0         | 20.57       | 20.57       | 20.71       | 20.68       | 20.68       | 20.68       |              |          |  |  |
| 15              | HQAM       | 1       | 0         | 20.59       | 20.62       | 20.83       | 20.50       | 20.44       | 20.44       |              |          |  |  |
| 15              | HQAM       | 1       | 90        | 20.76       | 20.76       | 20.80       | 20.68       | 20.68       | 20.68       | 24           | 0        |  |  |
| 15              | HQAM       | 1       | 48        | 20.81       | 20.81       | 20.79       | 20.48       | 20.48       | 20.68       |              |          |  |  |
| 15              | HQAM       | 23      | 0         | 20.45       | 20.45       | 20.40       | 20.44       | 20.44       | 20.35       |              |          |  |  |
| 15              | HQAM       | 23      | 90        | 20.73       | 20.73       | 20.74       | 20.44       | 20.44       | 20.35       | 24           | 0        |  |  |
| 15              | HQAM       | 23      | 24        | 20.65       | 20.76       | 20.71       | 20.42       | 20.42       | 20.51       |              |          |  |  |
| 15              | HQAM       | 50      | 0         | 20.47       | 20.48       | 20.66       | 20.33       | 20.33       | 20.49       |              |          |  |  |
| 15              | HQAM       | 50      | 90        | 20.64       | 20.64       | 20.68       | 20.39       | 20.39       | 20.48       | 24           | 0        |  |  |
| 15              | HQAM       | 100     | 0         | 20.36       | 20.36       | 20.48       | 20.31       | 20.31       | 20.37       |              |          |  |  |
| 15              | HQAM       | 1       | 0         | 20.46       | 20.55       | 20.81       | 20.59       | 20.46       | 20.46       |              |          |  |  |
| 15              | HQAM       | 1       | 90        | 20.62       | 20.62       | 20.76       | 20.76       | 20.76       | 20.76       | 24           | 0        |  |  |
| 15              | HQAM       | 1       | 48        | 20.74       | 20.82       | 20.74       | 20.39       | 20.39       | 20.57       |              |          |  |  |
| 15              | HQAM       | 23      | 0         | 20.47       | 20.50       | 20.48       | 20.31       | 20.31       | 20.27       |              |          |  |  |
| 15              | HQAM       | 23      | 90        | 20.72       | 20.72       | 20.74       | 20.39       | 20.39       | 20.48       | 24           | 0        |  |  |
| 15              | HQAM       | 23      | 24        | 20.56       | 20.64       | 20.61       | 20.31       | 20.31       | 20.37       |              |          |  |  |
| 15              | HQAM       | 50      | 0         | 20.36       | 20.61       | 20.63       | 20.31       | 20.31       | 20.37       |              |          |  |  |
| 15              | HQAM       | 50      | 90        | 20.62       | 20.61       | 20.63       | 20.31       | 20.31       | 20.37       | 24           | 0        |  |  |
| 15              | HQAM       | 100     | 0         | 20.37       | 20.69       | 20.70       | 20.29       | 20.29       | 20.30       |              |          |  |  |
| 15              | HQAM       | 12      | 0         | 20.23       | 20.68       | 20.64       | 20.44       | 20.44       | 20.44       |              |          |  |  |
| 15              | HQAM       | 12      | 90        | 20.23       | 20.67       | 20.60       | 20.44       | 20.44       | 20.44       | 24           | 0        |  |  |
| 15              | HQAM       | 12      | 15        | 20.23       | 20.67       | 20.60       | 20.44       | 20.44       | 20.44       |              |          |  |  |
| 15              | HQAM       | 12      | 45        | 20.23       | 20.67       | 20.60       | 20.44       | 20.44       | 20.44       |              |          |  |  |
| 15              | HQAM       | 12      | 0         | 20.33       | 20.68       | 20.64       | 20.44       | 20.44       | 20.44       |              |          |  |  |
| 15              | HQAM       | 12      | 90        | 20.33       | 20.72       | 20.68       | 20.44       | 20.44       | 20.44       | 24           | 0        |  |  |
| 15              | HQAM       | 12      | 15        | 20.33       | 20.72       | 20.68       | 20.44       | 20.44       | 20.44       |              |          |  |  |
| 15              | HQAM       | 12      | 45        | 20.33       | 20.72       | 20.68       | 20.44       | 20.44       | 20.44       |              |          |  |  |
| 15              | HQAM       | 12      | 0         | 21.08       | 21.04       | 21.02       | 21.02       | 21.02       | 21.14       |              |          |  |  |
| 15              | HQAM       | 12      | 7         | 21.08       | 21.00       | 21.08       | 21.08       | 21.08       | 21.24       |              |          |  |  |
| 15              | HQAM       | 12      | 15        | 21.06       | 21.03       | 21.03       | 21.02       | 21.02       | 21.20       |              |          |  |  |
| 15              | HQAM       | 12      | 45        | 21.06       | 21.03       | 21.03       | 21.02       | 21.02       | 21.20       |              |          |  |  |
| 15              | HQAM       | 12      | 0         | 19.31       | 19.21       | 19.31       | 19.10       | 19.10       | 19.29       |              |          |  |  |
| 15              | HQAM       | 12      | 7         | 19.31       | 19.26       | 19.33       | 19.14       | 19.14       | 19.27       | 24           | 0        |  |  |
| 15              | HQAM       | 12      | 15        | 19.31       | 19.26       | 19.33       | 19.14       | 19.14       | 19.27       |              |          |  |  |
| 15              | HQAM       | 12      | 45        | 19.31       | 19.26       | 19.33       | 19.14       | 19.14       | 19.27       |              |          |  |  |
| 15              | HQAM       | 12      | 0         | 19.30       | 19.41       | 19.48       | 19.31       | 19.31       | 19.48       |              |          |  |  |
| 15              | HQAM       | 12      | 7         | 19.36       | 19.27       | 19.32       | 19.18       | 19.18       | 19.20       | 24           | 0        |  |  |
| 15              | HQAM       | 12      | 15        | 19.36       | 19.27       | 19.32       | 19.18       | 19.18       | 19.20       |              |          |  |  |
| 15              | HQAM       | 12      | 45        | 19.36       | 19.27       | 19.32       | 19.18       | 19.18       | 19.20       |              |          |  |  |

| Band 41 (HPUE_Ant 2)                                                                                                                          |            |          |             |                         |                         |                         |                         |                         |                         |               |             |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|-------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------|-------------|--|
| SRV (MHz)                                                                                                                                     | Modulation | RIS Size | Eff. Offset | Power (W) (Ch. / Freq.) | Power (W) (Ch. / Freq.) | Power (W) (Ch. / Freq.) | Power (W) (Ch. / Freq.) | Power (W) (Ch. / Freq.) | Power (W) (Ch. / Freq.) | Turn-on (min) | Light (dBm) |  |
| Channel                                                                                                                                       |            |          |             | 30700                   | 40185                   | 40600                   | 41015                   | 41430                   | 41845                   |               |             |  |
| Frequency (MHz)                                                                                                                               |            |          |             | 2006                    | 20413                   | 20828                   | 21243                   | 21658                   | 22073                   |               |             |  |
| 20                                                                                                                                            | QPSK       | 1        | 6           | 24.36                   | 24.37                   | 24.38                   | 24.31                   | 24.33                   | 24.35                   | 25.5          | 1           |  |
| 20                                                                                                                                            | QPSK       | 1        | 6           | 24.36                   | 24.37                   | 24.38                   | 24.31                   | 24.33                   | 24.35                   |               |             |  |
| 20                                                                                                                                            | QPSK       | 1        | 6           | 24.36                   | 24.37                   | 24.38                   | 24.31                   | 24.33                   | 24.35                   |               |             |  |
| 20                                                                                                                                            | QPSK       | 10       | 6           | 23.33                   | 23.47                   | 23.52                   | 23.21                   | 23.26                   | 23.31                   |               |             |  |
| 20                                                                                                                                            | QPSK       | 100      | 24          | 23.23                   | 23.51                   | 23.53                   | 23.26                   | 23.30                   | 23.33                   |               |             |  |
| 20                                                                                                                                            | QPSK       | 100      | 6           | 23.41                   | 23.58                   | 23.58                   | 23.27                   | 23.27                   | 23.32                   | 24.5          | 1           |  |
| 20                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 100      | 24          | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 25.5          | 0           |  |
| 20                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 20                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 20                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 20                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| Channel <th>30700</th> <th>40185</th> <th>40600</th> <th>41015</th> <th>41430</th> <th>41845</th> <th>Turn-on (min)</th> <th>Light (dBm)</th> |            |          |             | 30700                   | 40185                   | 40600                   | 41015                   | 41430                   | 41845                   | Turn-on (min) | Light (dBm) |  |
| Frequency (MHz) <th>2006</th> <th>20413</th> <th>20828</th> <th>21243</th> <th>21658</th> <th>22073</th> <th></th> <th></th>                  |            |          |             | 2006                    | 20413                   | 20828                   | 21243                   | 21658                   | 22073                   |               |             |  |
| 15                                                                                                                                            | QPSK       | 1        | 6           | 24.36                   | 24.37                   | 24.38                   | 24.31                   | 24.33                   | 24.35                   | 25.5          | 0           |  |
| 15                                                                                                                                            | QPSK       | 1        | 6           | 24.36                   | 24.37                   | 24.38                   | 24.31                   | 24.33                   | 24.35                   |               |             |  |
| 15                                                                                                                                            | QPSK       | 1        | 6           | 24.36                   | 24.37                   | 24.38                   | 24.31                   | 24.33                   | 24.35                   |               |             |  |
| 15                                                                                                                                            | QPSK       | 10       | 6           | 23.33                   | 23.48                   | 23.53                   | 23.21                   | 23.26                   | 23.31                   |               |             |  |
| 15                                                                                                                                            | QPSK       | 100      | 24          | 23.23                   | 23.51                   | 23.53                   | 23.26                   | 23.30                   | 23.33                   |               |             |  |
| 15                                                                                                                                            | QPSK       | 100      | 6           | 23.41                   | 23.58                   | 23.58                   | 23.27                   | 23.27                   | 23.32                   | 24.5          | 1           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 24          | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 25.5          | 0           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 2           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 10       | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16QAM      | 100      | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   | 22.5          | 3           |  |
| 15                                                                                                                                            | 16QAM      | 1        | 6           | 24.38                   | 24.38                   | 24.38                   | 24.34                   | 24.34                   | 24.38                   |               |             |  |
| 15                                                                                                                                            | 16Q        |          |             |                         |                         |                         |                         |                         |                         |               |             |  |

| Band 48_Ant 3   |            |         |           |                      |                             |                              |                       |               |          |  |  |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------------|------------------------------|-----------------------|---------------|----------|--|--|--|
| BW (MHz)        | Modulation | RB Band | RB Offset | Power Low Ch. (Freq) | Power Low Middle Ch. (Freq) | Power High Middle Ch. (Freq) | Power High Ch. (Freq) | Tune-up (MHz) | APR (dB) |  |  |  |
| Channel         |            |         |           | 55141                | 55151                       | 56151                        | 56161                 |               |          |  |  |  |
| Frequency (MHz) |            |         |           | 5565                 | 5605                        | 5641                         | 5650                  |               |          |  |  |  |
| 20              | QPSK       | 1       | 0         | 20.43                | 20.45                       | 20.23                        | 20.40                 | 21            | 0        |  |  |  |
| 20              | QPSK       | 1       | 48        | 20.50                | 20.50                       | 20.25                        | 20.51                 |               |          |  |  |  |
| 20              | QPSK       | 1       | 96        | 20.52                | 20.36                       | 20.42                        | 20.48                 |               |          |  |  |  |
| 20              | QPSK       | 50      | 0         | 19.81                | 19.85                       | 19.51                        | 19.38                 |               |          |  |  |  |
| 20              | QPSK       | 50      | 24        | 19.80                | 19.80                       | 19.70                        | 19.84                 |               |          |  |  |  |
| 20              | QPSK       | 50      | 50        | 19.88                | 19.90                       | 19.82                        | 19.90                 | 21            | 0        |  |  |  |
| 20              | QPSK       | 100     | 0         | 19.78                | 19.81                       | 19.47                        | 19.50                 |               |          |  |  |  |
| 20              | 16QAM      | 1       | 0         | 20.41                | 20.28                       | 20.19                        | 20.36                 |               |          |  |  |  |
| 20              | 16QAM      | 1       | 48        | 20.53                | 20.44                       | 20.50                        | 20.47                 |               |          |  |  |  |
| 20              | 16QAM      | 1       | 96        | 20.51                | 20.47                       | 20.42                        | 20.44                 |               |          |  |  |  |
| 20              | 16QAM      | 50      | 0         | 19.81                | 19.81                       | 19.49                        | 19.89                 | 20            | 1        |  |  |  |
| 20              | 16QAM      | 50      | 24        | 19.73                | 19.53                       | 19.58                        | 19.46                 |               |          |  |  |  |
| 20              | 16QAM      | 50      | 50        | 19.74                | 19.47                       | 19.84                        | 19.80                 |               |          |  |  |  |
| 20              | 16QAM      | 100     | 0         | 19.73                | 19.82                       | 19.45                        | 19.82                 |               |          |  |  |  |
| 20              | 16QAM      | 1       | 0         | 19.43                | 19.44                       | 19.37                        | 19.36                 |               |          |  |  |  |
| 20              | 16QAM      | 1       | 48        | 19.63                | 19.62                       | 19.51                        | 19.51                 | 20            | 1        |  |  |  |
| 20              | 16QAM      | 1       | 96        | 19.81                | 19.84                       | 19.65                        | 19.65                 |               |          |  |  |  |
| 20              | 16QAM      | 50      | 0         | 17.58                | 17.53                       | 17.53                        | 17.38                 |               |          |  |  |  |
| 20              | 16QAM      | 50      | 24        | 17.76                | 17.75                       | 17.45                        | 17.80                 |               |          |  |  |  |
| 20              | 16QAM      | 50      | 50        | 17.76                | 17.40                       | 17.80                        | 17.84                 |               |          |  |  |  |
| 20              | 16QAM      | 100     | 0         | 17.71                | 17.46                       | 17.79                        | 17.50                 | 19            | 2        |  |  |  |
| 20              | 25QAM      | 1       | 0         | 20.12                | 20.11                       | 20.13                        | 20.08                 |               |          |  |  |  |
| 20              | 25QAM      | 1       | 48        | 20.36                | 20.42                       | 20.43                        | 20.36                 |               |          |  |  |  |
| 20              | 25QAM      | 1       | 96        | 20.31                | 20.13                       | 20.20                        | 20.37                 |               |          |  |  |  |
| 20              | 25QAM      | 50      | 0         | 20.20                | 20.20                       | 20.12                        | 20.09                 |               |          |  |  |  |
| 20              | 25QAM      | 50      | 24        | 20.41                | 20.48                       | 20.30                        | 20.12                 | 21            | 0        |  |  |  |
| 20              | 25QAM      | 50      | 50        | 20.48                | 20.21                       | 20.30                        | 20.25                 |               |          |  |  |  |
| 20              | 25QAM      | 100     | 0         | 20.41                | 20.31                       | 20.47                        | 20.30                 |               |          |  |  |  |
| Channel         |            |         |           | 55151                | 55162                       | 56160                        | 56165                 |               |          |  |  |  |
| Frequency (MHz) |            |         |           | 55612                | 56012                       | 56412                        | 56505                 |               |          |  |  |  |
| 15              | QPSK       | 1       | 0         | 20.39                | 20.37                       | 20.32                        | 20.34                 | 21            | 0        |  |  |  |
| 15              | QPSK       | 1       | 37        | 20.51                | 20.44                       | 20.32                        | 20.38                 |               |          |  |  |  |
| 15              | QPSK       | 1       | 74        | 20.51                | 20.20                       | 20.30                        | 20.33                 |               |          |  |  |  |
| 15              | QPSK       | 36      | 0         | 19.85                | 19.48                       | 19.49                        | 19.37                 |               |          |  |  |  |
| 15              | QPSK       | 36      | 20        | 19.78                | 19.84                       | 19.69                        | 19.38                 |               |          |  |  |  |
| 15              | QPSK       | 36      | 36        | 19.81                | 19.41                       | 19.45                        | 19.44                 | 21            | 0        |  |  |  |
| 15              | QPSK       | 75      | 0         | 19.85                | 19.53                       | 19.40                        | 19.44                 |               |          |  |  |  |
| 15              | 16QAM      | 1       | 0         | 20.32                | 20.20                       | 20.05                        | 20.28                 |               |          |  |  |  |
| 15              | 16QAM      | 1       | 37        | 20.48                | 20.30                       | 20.50                        | 20.37                 |               |          |  |  |  |
| 15              | 16QAM      | 1       | 74        | 20.49                | 20.38                       | 20.22                        | 20.33                 |               |          |  |  |  |
| 15              | 16QAM      | 36      | 0         | 19.49                | 19.80                       | 19.31                        | 19.81                 | 20            | 1        |  |  |  |
| 15              | 16QAM      | 36      | 20        | 19.81                | 19.45                       | 19.47                        | 19.46                 |               |          |  |  |  |
| 15              | 16QAM      | 36      | 36        | 19.70                | 19.43                       | 19.54                        | 19.76                 |               |          |  |  |  |
| 15              | 16QAM      | 75      | 0         | 19.46                | 19.46                       | 19.35                        | 19.32                 |               |          |  |  |  |
| 15              | 16QAM      | 1       | 0         | 19.48                | 19.34                       | 19.12                        | 19.37                 |               |          |  |  |  |
| 15              | 16QAM      | 1       | 37        | 19.70                | 19.51                       | 19.59                        | 19.36                 | 20            | 1        |  |  |  |
| 15              | 16QAM      | 1       | 74        | 19.85                | 19.45                       | 19.47                        | 19.47                 |               |          |  |  |  |
| 15              | 16QAM      | 36      | 0         | 17.62                | 17.54                       | 17.45                        | 17.40                 |               |          |  |  |  |
| 15              | 16QAM      | 36      | 20        | 17.52                | 17.77                       | 17.59                        | 17.59                 |               |          |  |  |  |
| 15              | 16QAM      | 36      | 36        | 17.71                | 17.57                       | 17.66                        | 17.57                 |               |          |  |  |  |
| 15              | 25QAM      | 75      | 15        | 17.72                | 17.46                       | 17.69                        | 17.29                 | 19            | 2        |  |  |  |
| 15              | 25QAM      | 1       | 0         | 20.10                | 19.88                       | 20.13                        | 19.85                 |               |          |  |  |  |
| 15              | 25QAM      | 1       | 37        | 20.17                | 20.16                       | 20.20                        | 20.09                 |               |          |  |  |  |
| 15              | 25QAM      | 1       | 74        | 20.25                | 19.92                       | 20.14                        | 20.34                 |               |          |  |  |  |
| 15              | 25QAM      | 36      | 0         | 20.37                | 20.30                       | 19.88                        | 19.96                 |               |          |  |  |  |
| 15              | 25QAM      | 36      | 20        | 20.31                | 20.42                       | 20.23                        | 19.99                 | 21            | 0        |  |  |  |
| 15              | 25QAM      | 36      | 36        | 20.30                | 20.30                       | 20.30                        | 20.30                 |               |          |  |  |  |
| 15              | 25QAM      | 75      | 0         | 20.38                | 20.19                       | 20.37                        | 20.05                 |               |          |  |  |  |
| Channel         |            |         |           | 55160                | 55175                       | 56170                        | 56180                 |               |          |  |  |  |
| Frequency (MHz) |            |         |           | 55615                | 56015                       | 56415                        | 56510                 |               |          |  |  |  |
| 10              | QPSK       | 1       | 0         | 20.48                | 20.20                       | 20.40                        | 20.19                 | 21            | 0        |  |  |  |
| 10              | QPSK       | 1       | 20        | 20.43                | 20.40                       | 20.42                        | 20.36                 |               |          |  |  |  |
| 10              | QPSK       | 1       | 48        | 20.46                | 20.27                       | 20.37                        | 20.23                 |               |          |  |  |  |
| 10              | QPSK       | 25      | 0         | 19.79                | 19.40                       | 19.50                        | 19.39                 |               |          |  |  |  |
| 10              | QPSK       | 25      | 12        | 19.79                | 19.40                       | 19.50                        | 19.81                 |               |          |  |  |  |
| 10              | QPSK       | 25      | 20        | 19.84                | 19.50                       | 19.52                        | 19.43                 | 21            | 0        |  |  |  |
| 10              | QPSK       | 50      | 0         | 19.81                | 19.58                       | 19.34                        | 19.46                 |               |          |  |  |  |
| 10              | 16QAM      | 1       | 0         | 20.39                | 20.20                       | 20.16                        | 20.36                 |               |          |  |  |  |
| 10              | 16QAM      | 1       | 20        | 20.43                | 20.30                       | 20.39                        | 20.46                 |               |          |  |  |  |
| 10              | 16QAM      | 1       | 48        | 20.38                | 20.41                       | 20.29                        | 20.37                 |               |          |  |  |  |
| 10              | 16QAM      | 25      | 0         | 19.86                | 19.57                       | 19.34                        | 19.89                 | 20            | 1        |  |  |  |
| 10              | 16QAM      | 25      | 12        | 19.88                | 19.42                       | 19.58                        | 19.44                 |               |          |  |  |  |
| 10              | 16QAM      | 25      | 20        | 19.82                | 19.41                       | 19.54                        | 19.87                 |               |          |  |  |  |
| 10              | 16QAM      | 50      | 0         | 19.83                | 19.50                       | 19.44                        | 19.54                 |               |          |  |  |  |
| 10              | 16QAM      | 1       | 0         | 19.48                | 19.21                       | 19.10                        | 19.10                 |               |          |  |  |  |
| 10              | 16QAM      | 1       | 20        | 19.84                | 19.43                       | 19.42                        | 19.29                 | 20            | 1        |  |  |  |
| 10              | 16QAM      | 1       | 48        | 19.83                | 19.52                       | 19.40                        | 19.84                 |               |          |  |  |  |
| 10              | 16QAM      | 25      | 0         | 17.52                | 17.50                       | 17.59                        | 17.28                 |               |          |  |  |  |
| 10              | 16QAM      | 25      | 12        | 17.85                | 17.51                       | 17.49                        | 17.40                 |               |          |  |  |  |
| 10              | 16QAM      | 25      | 20        | 17.85                | 17.59                       | 17.50                        | 17.53                 |               |          |  |  |  |
| 10              | 16QAM      | 50      | 0         | 17.47                | 17.36                       | 17.57                        | 17.34                 | 19            | 2        |  |  |  |
| 10              | 25QAM      | 1       | 0         | 19.98                | 19.94                       | 20.12                        | 19.98                 |               |          |  |  |  |
| 10              | 25QAM      | 1       | 20        | 20.20                | 20.41                       | 20.30                        | 20.15                 |               |          |  |  |  |
| 10              | 25QAM      | 1       | 48        | 20.14                | 20.11                       | 19.96                        | 20.10                 |               |          |  |  |  |
| 10              | 25QAM      | 25      | 0         | 20.32                | 20.30                       | 20.19                        | 20.10                 |               |          |  |  |  |
| 10              | 25QAM      | 25      | 12        | 20.31                | 20.39                       | 20.39                        | 20.24                 | 21            | 0        |  |  |  |
| 10              | 25QAM      | 25      | 20        | 20.45                | 20.24                       | 20.40                        | 20.24                 |               |          |  |  |  |
| 10              | 25QAM      | 50      | 0         | 20.13                | 20.11                       | 20.20                        | 20.05                 |               |          |  |  |  |
| Channel         |            |         |           | 55165                | 55170                       | 56170                        | 56175                 |               |          |  |  |  |
| Frequency (MHz) |            |         |           | 55620                | 56020                       | 56420                        | 56515                 |               |          |  |  |  |
| 5               | QPSK       | 1       | 0         | 20.31                | 20.33                       | 20.17                        | 20.33                 | 21            | 0        |  |  |  |
| 5               | QPSK       | 1       | 14        | 20.52                | 20.47                       | 20.41                        | 20.36                 |               |          |  |  |  |
| 5               | QPSK       | 1       | 24        | 20.48                | 20.20                       | 20.37                        | 20.26                 |               |          |  |  |  |
| 5               | QPSK       | 12      | 0         | 19.88                | 19.47                       | 19.47                        | 19.28                 |               |          |  |  |  |
| 5               | QPSK       | 12      | 7         | 19.76                | 19.60                       | 19.83                        | 19.51                 |               |          |  |  |  |
| 5               | QPSK       | 12      | 13        | 19.81                | 19.37                       | 19.52                        | 19.39                 | 21            | 0        |  |  |  |
| 5               | QPSK       | 25      | 0         | 19.86                | 19.59                       | 19.41                        | 19.49                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 20.38                | 20.27                       | 20.06                        | 20.24                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 20.42                | 20.40                       | 20.40                        | 20.47                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 24        | 20.44                | 20.48                       | 20.20                        | 20.42                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 19.81                | 19.59                       | 19.40                        | 19.89                 | 20            | 1        |  |  |  |
| 5               | 16QAM      | 12      | 6         | 19.42                | 19.52                       | 19.51                        | 19.46                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 19.71                | 19.39                       | 19.61                        | 19.75                 |               |          |  |  |  |
| 5               | 16QAM      | 25      | 0         | 19.83                | 19.48                       | 19.35                        | 19.55                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 19.42                | 19.20                       | 19.37                        | 19.36                 |               |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 19.40                | 19.87                       | 19.51                        | 19.34                 | 20            | 1        |  |  |  |
| 5               | 16QAM      | 1       | 24        | 19.54                | 19.38                       | 19.42                        | 19.38                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 17.36                | 17.31                       | 17.49                        | 17.42                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 17.54                | 17.66                       | 17.39                        | 17.87                 |               |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 17.80                | 17.31                       | 17.57                        | 17.50                 |               |          |  |  |  |
| 5               | 16QAM      | 25      | 0         | 17.57                | 17.37                       | 17.63                        | 17.30                 | 19            | 2        |  |  |  |
| 5               | 25QAM      | 1       | 0         | 20.13                | 20.00                       | 20.17                        | 20.12                 |               |          |  |  |  |
| 5               | 25QAM      | 1       | 12        | 20.08                | 20.41                       | 20.21                        | 19.84                 |               |          |  |  |  |
| 5               | 25QAM      | 1       | 24        | 20.23                | 19.91                       | 19.99                        | 20.39                 |               |          |  |  |  |
| 5               | 25QAM      | 12      | 0         | 20.16                | 20.20                       | 20.14                        | 20.07                 |               |          |  |  |  |
| 5               | 25QAM      | 12      | 7         | 20.44                | 20.32                       | 20.09                        | 20.10                 | 21            | 0        |  |  |  |

# UL CA Power

| CA_5B_Ant 0                         |             |            |         |           |         |           |                 |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | Default Power   | 22.93                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 23.00                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.90                | 24.00               |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | DSI2            | 22.93                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 23.00                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.90                | 24.00               |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | DSI3            | 22.93                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 23.00                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.90                | 24.00               |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | DSI4            | 22.93                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 23.00                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.90                | 24.00               |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | DSI6            | 22.93                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 23.00                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.90                | 24.00               |

| CA_7C_Ant 1                           |             |            |         |           |         |           |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | Default Power   | 21.86                | 23.00               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.06                | 23.00               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.97                | 23.00               |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | DSI2            | 15.00                | 16.10               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 14.94                | 16.10               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 14.97                | 16.10               |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | DSI3            | 15.88                | 17.00               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 15.92                | 17.00               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 15.73                | 17.00               |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | DSI4            | 21.86                | 23.00               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.06                | 23.00               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.97                | 23.00               |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | DSI6            | 18.71                | 20.00               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 18.80                | 20.00               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 18.63                | 20.00               |

| CA_5B_Ant 1                         |             |            |         |           |         |           |                 |                      |                     |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | Default Power   | 22.55                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.88                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.68                | 24.00               |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | DSI2            | 21.93                | 23.10               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 21.95                | 23.10               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 21.85                | 23.10               |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | DSI3            | 22.55                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.88                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.68                | 24.00               |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | DSI4            | 22.55                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.88                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.68                | 24.00               |
| 20450                               | 20549       | QPSK       | 1       | 25        | 0       | 0         | DSI6            | 22.55                | 24.00               |
| 20575                               | 20476       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.88                | 24.00               |
| 20600                               | 20501       | QPSK       | 1       | 25        | 0       | 0         |                 | 22.68                | 24.00               |

| CA_7C_Ant 2                           |             |            |         |           |         |           |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | Default Power   | 23.24                | 24.00               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 23.34                | 24.00               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.88                | 24.00               |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | DSI2            | 23.24                | 24.00               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 23.34                | 24.00               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.88                | 24.00               |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | DSI3            | 22.18                | 22.80               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.23                | 22.80               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.96                | 22.80               |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | DSI4            | 23.24                | 24.00               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 23.34                | 24.00               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.88                | 24.00               |
| 20850                                 | 21048       | QPSK       | 1       | 49        | 0       | 0         | DSI6            | 21.65                | 22.60               |
| 21100                                 | 21298       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.79                | 22.60               |
| 21350                                 | 21152       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.56                | 22.60               |



| CA_66B_Ant 1                       |             |            |         |           |         |           |                 |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | Default Power   | 21.94                | 23.00               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 22.03                | 23.00               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 21.80                | 23.00               |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | DSI2            | 16.58                | 17.60               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 16.66                | 17.60               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 16.55                | 17.60               |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | DSI3            | 17.20                | 18.40               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 17.38                | 18.40               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 17.26                | 18.40               |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | DSI4            | 21.94                | 23.00               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 22.03                | 23.00               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 21.80                | 23.00               |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | DSI6            | 19.16                | 20.20               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 19.25                | 20.20               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 19.07                | 20.20               |

| CA_66B_Ant 2                       |             |            |         |           |         |           |                 |                      |                     |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 15MHz+5MHz (75RB+25RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | Default Power   | 22.97                | 24.00               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 23.15                | 24.00               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 23.05                | 24.00               |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | DSI2            | 22.97                | 24.00               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 23.15                | 24.00               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 23.05                | 24.00               |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | DSI3            | 21.05                | 21.90               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 21.13                | 21.90               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 20.93                | 21.90               |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | DSI4            | 22.97                | 24.00               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 23.15                | 24.00               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 23.05                | 24.00               |
| 132047                             | 132140      | QPSK       | 1       | 37        | 0       | 0         | DSI6            | 22.32                | 20.20               |
| 132322                             | 132415      | QPSK       | 1       | 37        | 0       | 0         |                 | 22.36                | 20.20               |
| 132597                             | 132504      | QPSK       | 1       | 37        | 0       | 0         |                 | 22.20                | 20.20               |

| CA_66C_Ant 1                          |             |            |         |           |         |           |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | Default Power   | 21.98                | 23.00               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 22.05                | 23.00               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 21.83                | 23.00               |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | DSI2            | 16.64                | 17.60               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 16.70                | 17.60               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 16.65                | 17.60               |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | DSI3            | 17.30                | 18.40               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 17.35                | 18.40               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 17.38                | 18.40               |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | DSI4            | 21.98                | 23.00               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 22.05                | 23.00               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 21.83                | 23.00               |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | DSI6            | 19.19                | 20.20               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 19.28                | 20.20               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 19.09                | 20.20               |

| CA_66C_Ant 2                          |             |            |         |           |         |           |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | Default Power   | 23.05                | 24.00               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 23.17                | 24.00               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 23.15                | 24.00               |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | DSI2            | 23.05                | 24.00               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 23.17                | 24.00               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 23.15                | 24.00               |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | DSI3            | 21.07                | 21.90               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 21.16                | 21.90               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 21.12                | 21.90               |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | DSI4            | 23.05                | 24.00               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 23.17                | 24.00               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 23.15                | 24.00               |
| 132072                                | 132270      | QPSK       | 1       | 49        | 0       | 0         | DSI6            | 22.38                | 23.20               |
| 132322                                | 132520      | QPSK       | 1       | 49        | 0       | 0         |                 | 22.42                | 23.20               |
| 132572                                | 132374      | QPSK       | 1       | 49        | 0       | 0         |                 | 22.27                | 23.20               |

| CA 41C_Ant 1                          |             |            |         |           |         |           |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | Default         | 21.57                | 23.00               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.63                | 23.00               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.78                | 23.00               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.52                | 23.00               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.61                | 23.00               |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | DSI2            | 17.46                | 18.50               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 17.41                | 18.50               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 17.55                | 18.50               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 17.35                | 18.50               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 17.38                | 18.50               |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | DSI3            | 16.82                | 17.80               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 16.81                | 17.80               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 16.89                | 17.80               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 16.75                | 17.80               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 16.83                | 17.80               |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | DSI4            | 21.57                | 23.00               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.63                | 23.00               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.78                | 23.00               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.52                | 23.00               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.61                | 23.00               |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | DSI6            | 21.23                | 22.20               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.21                | 22.20               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.38                | 22.20               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.29                | 22.20               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 20.34                | 22.20               |

| CA 41C_Ant 2                          |             |            |         |           |         |           |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | Default         | 22.92                | 24.00               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.84                | 24.00               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 23.00                | 24.00               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.98                | 24.00               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.90                | 24.00               |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | DSI2            | 22.92                | 24.00               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.84                | 24.00               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 23.00                | 24.00               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.98                | 24.00               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.90                | 24.00               |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | DSI3            | 22.92                | 24.00               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.84                | 24.00               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 23.00                | 24.00               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.98                | 24.00               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.90                | 24.00               |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | DSI4            | 22.92                | 24.00               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.84                | 24.00               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 23.00                | 24.00               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.98                | 24.00               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.90                | 24.00               |
| 39750                                 | 39948       | QPSK       | 1       | 49        | 0       | 0         | DSI6            | 22.92                | 24.00               |
| 40185                                 | 40383       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.84                | 24.00               |
| 40620                                 | 40818       | QPSK       | 1       | 49        | 0       | 0         |                 | 23.00                | 24.00               |
| 41055                                 | 41253       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.98                | 24.00               |
| 41490                                 | 41292       | QPSK       | 1       | 49        | 0       | 0         |                 | 22.90                | 24.00               |

| CA 48C(Part 96)_Ant 3                 |             |            |         |           |         |           |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         | Default         | 20.81                | 22.00               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         |                 | 21.51                | 22.00               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         |                 | 21.16                | 22.00               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.29                | 22.00               |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         |                 | 20.81                | 22.00               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         | DSI2            | 21.51                | 22.00               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         |                 | 21.16                | 22.00               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         |                 | 21.29                | 22.00               |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.52                | 19.40               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.93                | 19.40               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         | DSI3            | 18.84                | 19.40               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         |                 | 18.65                | 19.40               |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         |                 | 20.28                | 21.00               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         |                 | 20.53                | 21.00               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         |                 | 20.31                | 21.00               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         | DSI4            | 20.46                | 21.00               |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         |                 | 20.28                | 21.00               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         |                 | 20.53                | 21.00               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         |                 | 20.31                | 21.00               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         |                 | 20.46                | 21.00               |

| CA 48C(Part 96)_Ant 8                 |             |            |         |           |         |           |                 |                      |                     |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|-----------------|----------------------|---------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |                 |                      |                     |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Power Reduction | Measured Power (dBm) | Tune up Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |                 |                      |                     |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         | Default         | 18.86                | 20.00               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         |                 | 19.55                | 20.00               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.81                | 20.00               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         |                 | 18.94                | 20.00               |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.86                | 20.00               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         | DSI2            | 19.55                | 20.00               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.81                | 20.00               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         |                 | 18.94                | 20.00               |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         |                 | 14.07                | 15.50               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         |                 | 14.38                | 15.50               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         | DSI3            | 14.35                | 15.50               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         |                 | 14.31                | 15.50               |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.86                | 20.00               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         |                 | 19.55                | 20.00               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.81                | 20.00               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         | DSI4            | 18.94                | 20.00               |
| 55340                                 | 55538       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.13                | 19.30               |
| 55830                                 | 56028       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.58                | 19.30               |
| 56150                                 | 56348       | QPSK       | 1       | 99        | 0       | 0         |                 | 18.45                | 19.30               |
| 56640                                 | 56442       | QPSK       | 1       | 49        | 0       | 0         |                 | 18.54                | 19.30               |

[illegible]

| CC              | Config          | PCC                     |          |          |             | SCC1                    |          |          |             | SCC2                    |          |          |             |
|-----------------|-----------------|-------------------------|----------|----------|-------------|-------------------------|----------|----------|-------------|-------------------------|----------|----------|-------------|
|                 |                 | CA (Component Carriers) | LTE Band | RF (MHz) | Ch. Channel | CA (Component Carriers) | LTE Band | RF (MHz) | Ch. Channel | CA (Component Carriers) | LTE Band | RF (MHz) | Ch. Channel |
| Cat 6           | CA 20-24-44-45A | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45B | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45C | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45D | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45E | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45F | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45G | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45H | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45I | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45J | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45K | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45L | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45M | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45N | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45O | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45P | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45Q | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45R | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45S | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45T | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45U | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45V | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45W | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
| CA 20-24-44-45X | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| CA 20-24-44-45Y | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| CA 20-24-44-45Z | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| Cat 6           | CA 20-24-44-45A | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45B | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45C | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45D | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45E | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45F | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45G | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45H | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45I | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45J | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45K | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45L | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45M | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45N | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45O | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45P | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45Q | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45R | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45S | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45T | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45U | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45V | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45W | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
| CA 20-24-44-45X | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| CA 20-24-44-45Y | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| CA 20-24-44-45Z | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| Cat 6           | CA 20-24-44-45A | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45B | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45C | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45D | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45E | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45F | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45G | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45H | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45I | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45J | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45K | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45L | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45M | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45N | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45O | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45P | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45Q | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45R | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45S | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45T | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45U | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45V | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45W | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
| CA 20-24-44-45X | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| CA 20-24-44-45Y | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| CA 20-24-44-45Z | Band 2          | 1500                    | 1880     | QPSK     | 40          | Band 2                  | 1500     | 1880     | 5           | Band 2                  | 1500     | 1880     |             |
| Cat 6           | CA 20-24-44-45A | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45B | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45C | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45D | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45E | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45F | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45G | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45H | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45I | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45J | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45K | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45L | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45M | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45N | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45O | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45P | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45Q | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45R | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45S | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45T | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45U | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   | 1500     | 1880        |
|                 | CA 20-24-44-45V | Band 2                  | 1500     | 1880     | QPSK        | 40                      | Band 2   | 1500     | 1880        | 5                       | Band 2   |          |             |

| Category                                                                                                                                                                                                                                                                                                                                                                                                            | CA Configuration (BCE)                                                                                                                                                                               | PCC      |      |          |       |             |      |                 |       |        |        | SCC1     |      |          |       |             |      |                 |       |        |        | SCC2     |      |          |       |             |      |                 |       |          |      |          |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|-------|-------------|------|-----------------|-------|--------|--------|----------|------|----------|-------|-------------|------|-----------------|-------|--------|--------|----------|------|----------|-------|-------------|------|-----------------|-------|----------|------|----------|------|
|                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                      | L/E Band |      | BW (MHz) |       | L/E Channel |      | L/E Freq. (MHz) |       | L/E BW |        | L/E Band |      | BW (MHz) |       | L/E Channel |      | L/E Freq. (MHz) |       | L/E BW |        | L/E Band |      | BW (MHz) |       | L/E Channel |      | L/E Freq. (MHz) |       | L/E Band |      | BW (MHz) |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                      | Band     | Mode | 1.8      | 800   | 1           | 800  | 1               | 800   | 1      | 800    | Band     | Mode | 1.8      | 800   | 1           | 800  | 1               | 800   | 1      | 800    | Band     | Mode | 1.8      | 800   | 1           | 800  | 1               | 800   | 1        | 800  | 1        |      |
| CoreNet                                                                                                                                                                                                                                                                                                                                                                                                             | CA_2A-2A-10A-50A                                                                                                                                                                                     | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A                                                                                                                                                                                 | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A                                                                                                                                                                             | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A                                                                                                                                                                         | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A                                                                                                                                                                     | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A                                                                                                                                                                  | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A                                                                                                                                                             | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A                                                                                                                                                       | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A                                                                                                                                                | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A                                                                                                                                        | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A                                                                                                                               | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A                                                                                                                     | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A                                                                                                          | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A                                                                                              | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A                                                                                 | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A                                                                   | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A                                                    | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A                                    | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A                   | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
|                                                                                                                                                                                                                                                                                                                                                                                                                     | CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE  | 1      | Band 2   | 20M  | 1950     | 1980  | CPHSE       | 1    | 1950            | 1980  | CPHSE    | 1    | 1950     | 1980 |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A                                                                                                                                                                                             | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1        | 1950 | 1980     |      |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A-0.0000762939453125A                                                                                                                                                                         | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1        | 1950 | 1980     |      |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A-0.0000762939453125A-0.00003814697265625A                                                                                                                                                    | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1        | 1950 | 1980     |      |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A-0.0000762939453125A-0.00003814697265625A-0.000019073486328125A                                                                                                                              | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1        | 1950 | 1980     |      |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A-0.0000762939453125A-0.00003814697265625A-0.000019073486328125A-0.0000095367431640625A                                                                                                       | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1        | 1950 | 1980     |      |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A-0.0000762939453125A-0.00003814697265625A-0.000019073486328125A-0.0000095367431640625A-0.00000476837158203125A                                                                               | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1        | 1950 | 1980     |      |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A-0.0000762939453125A-0.00003814697265625A-0.000019073486328125A-0.0000095367431640625A-0.00000476837158203125A-0.000002384185791015625A                                                      | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1        | 1950 | 1980     |      |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A-0.0000762939453125A-0.00003814697265625A-0.000019073486328125A-0.0000095367431640625A-0.00000476837158203125A-0.000002384185791015625A-0.0000011920928955078125A                            | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      | Band 2 | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1        | 1950 | 1980     |      |
| CA_2A-2A-10A-50A-40A-30A-20A-10A-5A-2.5A-1.25A-0.625A-0.3125A-0.15625A-0.078125A-0.0390625A-0.01953125A-0.009765625A-0.0048828125A-0.00244140625A-0.001220703125A-0.0006103515625A-0.00030517578125A-0.000152587890625A-0.0000762939453125A-0.00003814697265625A-0.000019073486328125A-0.0000095367431640625A-0.00000476837158203125A-0.000002384185791015625A-0.0000011920928955078125A-0.00000059604644775390625A | Band 2                                                                                                                                                                                               | 20M      | 1950 | 1980     | CPHSE | 1           | 1950 | 1980            | CPHSE | 1      |        |          |      |          |       |             |      |                 |       |        |        |          |      |          |       |             |      |                 |       |          |      |          |      |

| 602        |                        |           |          |                  |      |              |           |          |            |              |           |          |            |              |           |          |            |              |      |        |  |
|------------|------------------------|-----------|----------|------------------|------|--------------|-----------|----------|------------|--------------|-----------|----------|------------|--------------|-----------|----------|------------|--------------|------|--------|--|
| Config     | CA Configuration (SCS) | PDS       |          |                  |      |              | SCS1      |          |            |              |           | SCS2     |            |              |           |          | SCS3       |              |      |        |  |
|            |                        | 1.5E Band | BW (MHz) | 14.4 Freq. (MHz) | Mod. | LS-Freq. GHz | 1.5E Band | BW (MHz) | CA Channel | LS-Freq. GHz | 1.5E Band | BW (MHz) | CA Channel | LS-Freq. GHz | 1.5E Band | BW (MHz) | CA Channel | LS-Freq. GHz |      |        |  |
| Inter-Band | CA_24-40A-40B-40B      | Band 2    | 20M      | 1980             | 1980 | QPSK         | 1         | 45       | Band 40    | 23M          | 2380      | 5507.1   | Band 40    | 23M          | 2380      | 5507.1   | Band 40    | 23M          | 2380 | 5507.1 |  |
|            | CA_24-40B-40B-40B      | Band 2    | 20M      | 1980             | 1980 | QPSK         | 1         | 45       | Band 40    | 23M          | 2380      | 5507.1   | Band 40    | 23M          | 2380      | 5507.1   | Band 40    | 23M          | 2380 | 5507.1 |  |
|            | CA_24-40B-40B-40B      | Band 2    | 20M      | 1980             | 1980 | QPSK         | 1         | 45       | Band 40    | 23M          | 2380      | 5507.1   | Band 40    | 23M          | 2380      | 5507.1   | Band 40    | 23M          | 2380 | 5507.1 |  |
|            | CA_24-40B-40B-40B      | Band 2    | 20M      | 1980             | 1980 | QPSK         | 1         | 45       | Band 40    | 23M          | 2380      | 5507.1   | Band 40    | 23M          | 2380      | 5507.1   | Band 40    | 23M          | 2380 | 5507.1 |  |

[illegible]



Full Power Mode&Default Power

n2\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                      | 376000                         | 380000                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1860                        | 1880                           | 1900                         |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 23.15                       | 23.43                          | 23.35                        | 24.0                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 53        | 23.34                       | 23.44                          | 23.31                        |                        |             |
| 20              | PI/2 BPSK  | 1       | 104       | 23.40                       | 23.45                          | 23.23                        |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 22.83                       | 22.90                          | 22.83                        | 23.5                   | 0.5         |
| 20              | PI/2 BPSK  | 50      | 28        | 23.22                       | 23.42                          | 23.32                        | 24.0                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 56        | 22.78                       | 22.86                          | 22.68                        | 23.5                   | 0.5         |
| 20              | PI/2 BPSK  | 100     | 0         | 22.88                       | 22.88                          | 22.81                        |                        |             |
| 20              | QPSK       | 1       | 1         | 23.43                       | 23.50                          | 23.46                        | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 23.42                       | 23.46                          | 23.44                        |                        |             |
| 20              | QPSK       | 1       | 104       | 23.37                       | 23.44                          | 23.37                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.34                       | 22.44                          | 22.40                        | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 23.36                       | 23.38                          | 23.34                        | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 22.34                       | 22.38                          | 22.34                        | 23.0                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 22.29                       | 22.41                          | 22.40                        |                        |             |
| 20              | 16QAM      | 1       | 1         | 22.64                       | 22.72                          | 22.69                        | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.64                       | 20.66                          | 20.62                        | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.95                       | 19.07                          | 19.06                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 371500                      | 376000                         | 380500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1857.5                      | 1880                           | 1902.5                       | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 23.39                       | 23.46                          | 23.31                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 371000                      | 376000                         | 381000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1855                        | 1880                           | 1905                         | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 23.44                       | 23.38                          | 23.43                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 370500                      | 376000                         | 381500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1852.5                      | 1880                           | 1907.5                       | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 23.32                       | 23.45                          | 23.48                        | 24.0                   | 0.0         |

n2\_Ant 2

| n2_Ant 2        |            |         |           |                          |                             |                           |                        |             |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 372000                   | 376000                      | 380000                    | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1860                     | 1880                        | 1900                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 23.20                    | 23.25                       | 23.31                     | 24.0                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 53        | 23.26                    | 23.37                       | 23.27                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 104       | 23.34                    | 23.42                       | 23.10                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 22.84                    | 22.83                       | 22.87                     | 23.5                   | 0.5         |
| 20              | PI/2 BPSK  | 50      | 28        | 23.08                    | 23.38                       | 23.12                     | 24.0                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 56        | 22.83                    | 22.83                       | 22.80                     | 23.5                   | 0.5         |
| 20              | PI/2 BPSK  | 100     | 0         | 22.81                    | 22.87                       | 22.85                     |                        |             |
| 20              | QPSK       | 1       | 1         | 23.26                    | 23.45                       | 23.27                     | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 23.15                    | 23.42                       | 23.34                     |                        |             |
| 20              | QPSK       | 1       | 104       | 23.22                    | 23.41                       | 23.13                     |                        |             |
| 20              | QPSK       | 50      | 0         | 22.10                    | 22.33                       | 22.21                     | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 23.23                    | 23.41                       | 23.34                     | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 22.16                    | 22.33                       | 22.10                     | 23.0                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 22.09                    | 22.36                       | 22.16                     |                        |             |
| 20              | 16QAM      | 1       | 1         | 22.03                    | 22.29                       | 22.53                     | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.59                    | 20.63                       | 20.74                     | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.55                    | 18.83                       | 19.02                     | 19.5                   | 4.5         |
| Channel         |            |         |           | 371500                   | 376000                      | 380500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                        | 1902.5                    | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 22.80                    | 23.39                       | 23.30                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 371000                   | 376000                      | 381000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1855                     | 1880                        | 1905                      | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 22.79                    | 23.26                       | 23.16                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 370500                   | 376000                      | 381500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                        | 1907.5                    | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 23.17                    | 23.35                       | 23.01                     | 24.0                   | 0.0         |

n5\_Ant 0

| n5_Ant 0        |            |         |           |                             |                                |                              |                        |             |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 166800                      | 167300                         | 167800                       |                        |             |
| Frequency (MHz) |            |         |           | 834                         | 836.5                          | 839                          |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 23.17                       | 23.09                          | 23.14                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 1       | 53        | 23.17                       | 23.12                          | 23.16                        |                        |             |
| 20              | PI2 BPSK   | 1       | 104       | 22.87                       | 22.69                          | 22.62                        |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.59                       | 22.67                          | 22.62                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 50      | 28        | 22.58                       | 22.57                          | 22.65                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 56        | 22.63                       | 22.48                          | 22.45                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 100     | 0         | 22.71                       | 22.63                          | 22.61                        |                        |             |
| 20              | QPSK       | 1       | 1         | 23.13                       | 23.18                          | 23.16                        | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 23.08                       | 23.07                          | 23.12                        |                        |             |
| 20              | QPSK       | 1       | 104       | 22.19                       | 22.20                          | 22.28                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.09                       | 22.11                          | 22.10                        | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 22.10                       | 22.15                          | 22.14                        | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 22.06                       | 21.93                          | 21.96                        | 23.0                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 22.14                       | 22.20                          | 22.18                        |                        |             |
| 20              | 16QAM      | 1       | 1         | 22.28                       | 22.28                          | 22.09                        | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.80                       | 20.67                          | 20.71                        | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.41                       | 18.48                          | 18.40                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 166300                      | 167300                         | 168300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 831.5                       | 836.5                          | 841.5                        | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 23.14                       | 23.11                          | 22.94                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 165800                      | 167300                         | 168800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 829                         | 836.5                          | 844                          | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 23.14                       | 23.09                          | 23.00                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 165300                      | 167300                         | 169300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 826.5                       | 836.5                          | 846.5                        | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 23.09                       | 23.06                          | 23.00                        | 24.0                   | 0.0         |



n5\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                      | 167300                         | 167800                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 834                         | 836.5                          | 839                          |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 23.10                       | 23.09                          | 23.08                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 1       | 53        | 23.05                       | 23.05                          | 23.14                        |                        |             |
| 20              | PI2 BPSK   | 1       | 104       | 23.07                       | 23.10                          | 22.77                        |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.53                       | 22.82                          | 22.55                        |                        |             |
| 20              | PI2 BPSK   | 50      | 28        | 23.05                       | 23.01                          | 23.14                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 56        | 22.58                       | 22.83                          | 22.40                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 100     | 0         | 22.81                       | 22.79                          | 22.77                        |                        |             |
| 20              | QPSK       | 1       | 1         | 23.04                       | 23.15                          | 23.05                        | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 22.99                       | 23.06                          | 23.01                        |                        |             |
| 20              | QPSK       | 1       | 104       | 22.99                       | 22.82                          | 22.81                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.13                       | 22.11                          | 22.11                        |                        |             |
| 20              | QPSK       | 50      | 28        | 22.95                       | 23.07                          | 22.97                        | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 21.99                       | 21.97                          | 21.90                        | 23.0                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 22.00                       | 22.04                          | 22.03                        |                        |             |
| 20              | 16QAM      | 1       | 1         | 22.13                       | 22.10                          | 22.08                        | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.45                       | 20.47                          | 20.45                        | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.59                       | 18.62                          | 18.60                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 166300                      | 167300                         | 168300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 831.5                       | 836.5                          | 841.5                        |                        |             |
| 15              | QPSK       | 1       | 1         | 22.92                       | 23.08                          | 23.10                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 165800                      | 167300                         | 168800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 829                         | 836.5                          | 844                          |                        |             |
| 10              | QPSK       | 1       | 1         | 22.86                       | 23.11                          | 22.96                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 165300                      | 167300                         | 168300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 826.5                       | 836.5                          | 846.5                        |                        |             |
| 5               | QPSK       | 1       | 1         | 23.03                       | 22.97                          | 22.90                        | 24.0                   | 0.0         |

n7\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 504000                      | 507000                         | 510000                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 23.05                       | 23.12                          | 23.09                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 108       | 23.11                       | 23.14                          | 23.11                        |                        |             |
| 40              | PI2 BPSK   | 1       | 214       | 22.99                       | 23.01                          | 23.06                        |                        |             |
| 40              | PI2 BPSK   | 108     | 0         | 22.81                       | 22.58                          | 22.56                        |                        |             |
| 40              | PI2 BPSK   | 108     | 54        | 23.04                       | 23.10                          | 23.05                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 108     | 108       | 22.60                       | 22.62                          | 22.68                        | 23.5                   | 0.5         |
| 40              | PI2 BPSK   | 216     | 0         | 22.77                       | 22.68                          | 22.62                        |                        |             |
| 40              | QPSK       | 1       | 1         | 23.14                       | 23.15                          | 23.06                        | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 23.13                       | 23.12                          | 23.05                        |                        |             |
| 40              | QPSK       | 1       | 214       | 22.98                       | 22.91                          | 23.04                        |                        |             |
| 40              | QPSK       | 108     | 0         | 22.08                       | 22.08                          | 22.06                        |                        |             |
| 40              | QPSK       | 108     | 54        | 23.11                       | 23.12                          | 23.04                        | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.32                       | 22.34                          | 22.34                        | 23.0                   | 1.0         |
| 40              | QPSK       | 216     | 0         | 22.15                       | 22.16                          | 22.14                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 21.93                       | 22.15                          | 22.27                        | 23.0                   | 1.0         |
| 40              | 64QAM      | 1       | 1         | 20.63                       | 20.67                          | 20.53                        | 21.5                   | 2.5         |
| 40              | 256QAM     | 1       | 1         | 18.60                       | 18.64                          | 18.62                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 503000                      | 507000                         | 511000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2515                        | 2535                           | 2555                         |                        |             |
| 30              | QPSK       | 1       | 1         | 23.07                       | 23.09                          | 22.99                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 502500                      | 507000                         | 511500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2512.5                      | 2535                           | 2557.5                       |                        |             |
| 25              | QPSK       | 1       | 1         | 22.93                       | 22.96                          | 22.87                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 502000                      | 507000                         | 512000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2510                        | 2535                           | 2560                         |                        |             |
| 20              | QPSK       | 1       | 1         | 23.05                       | 23.11                          | 22.85                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15              | QPSK       | 1       | 1         | 22.99                       | 23.13                          | 22.76                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2565                         |                        |             |
| 10              | QPSK       | 1       | 1         | 22.90                       | 22.95                          | 23.06                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 23.13                       | 23.07                          | 22.80                        | 24.0                   | 0.0         |

n12\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 141300                      | 141500                         | 141700                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 706.5                       | 707.5                          | 708.5                        |                        |             |
| 15              | PI2 BPSK   | 1       | 1         | 23.15                       | 23.14                          | 23.16                        | 24.0                   | 0.0         |
| 15              | PI2 BPSK   | 1       | 40        | 23.11                       | 23.11                          | 23.18                        |                        |             |
| 15              | PI2 BPSK   | 1       | 77        | 23.17                       | 23.11                          | 23.19                        |                        |             |
| 15              | PI2 BPSK   | 36      | 0         | 22.81                       | 22.72                          | 22.69                        |                        |             |
| 15              | PI2 BPSK   | 36      | 22        | 23.11                       | 23.17                          | 23.16                        | 24.0                   | 0.0         |
| 15              | PI2 BPSK   | 36      | 43        | 22.78                       | 22.78                          | 22.78                        | 23.5                   | 0.5         |
| 15              | PI2 BPSK   | 75      | 0         | 22.79                       | 22.72                          | 22.73                        |                        |             |
| 15              | QPSK       | 1       | 1         | 23.16                       | 23.22                          | 23.18                        | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 40        | 23.12                       | 23.20                          | 23.17                        |                        |             |
| 15              | QPSK       | 1       | 77        | 23.15                       | 23.18                          | 23.14                        |                        |             |
| 15              | QPSK       | 36      | 0         | 22.16                       | 22.16                          | 22.19                        |                        |             |
| 15              | QPSK       | 36      | 22        | 23.13                       | 23.20                          | 23.16                        | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.27                       | 22.11                          | 22.24                        | 23.0                   | 1.0         |
| 15              | QPSK       | 75      | 0         | 22.24                       | 22.27                          | 22.26                        |                        |             |
| 15              | 16QAM      | 1       | 1         | 21.67                       | 22.15                          | 22.45                        | 23.0                   | 1.0         |
| 15              | 64QAM      | 1       | 1         | 20.88                       | 20.86                          | 21.02                        | 21.5                   | 2.5         |
| 15              | 256QAM     | 1       | 1         | 18.29                       | 18.24                          | 18.52                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 140300                      | 141500                         | 142200                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 704                         | 707.5                          | 711                          |                        |             |
| 10              | QPSK       | 1       | 1         | 23.06                       | 23.12                          | 23.02                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                      | 141500                         | 142700                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 701.5                       | 707.5                          | 713.5                        |                        |             |
| 5               | QPSK       | 1       | 1         | 23.02                       | 23.16                          | 23.07                        | 24.0                   | 0.0         |



n14\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 158100                      |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 793                         |                                |                              |                        |             |
| 10              | PI2 BPSK   | 1       | 1         | 22.80                       |                                |                              |                        |             |
| 10              | PI2 BPSK   | 1       | 26        | 22.77                       |                                |                              | 24.0                   | 0.0         |
| 10              | PI2 BPSK   | 1       | 50        | 22.70                       |                                |                              |                        |             |
| 10              | PI2 BPSK   | 25      | 0         | 22.20                       |                                |                              | 23.5                   | 0.5         |
| 10              | PI2 BPSK   | 25      | 14        | 22.82                       |                                |                              | 24.0                   | 0.0         |
| 10              | PI2 BPSK   | 25      | 27        | 22.15                       |                                |                              |                        |             |
| 10              | PI2 BPSK   | 50      | 0         | 22.29                       |                                |                              | 23.5                   | 0.5         |
| 10              | QPSK       | 1       | 1         | 22.83                       |                                |                              |                        |             |
| 10              | QPSK       | 1       | 26        | 22.62                       |                                |                              | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 50        | 22.64                       |                                |                              |                        |             |
| 10              | QPSK       | 25      | 0         | 21.76                       |                                |                              | 23.0                   | 1.0         |
| 10              | QPSK       | 25      | 14        | 22.81                       |                                |                              | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        | 21.73                       |                                |                              |                        |             |
| 10              | QPSK       | 50      | 0         | 21.78                       |                                |                              | 23.0                   | 1.0         |
| 10              | 16QAM      | 1       | 1         | 22.13                       |                                |                              | 23.0                   | 1.0         |
| 10              | 64QAM      | 1       | 1         | 20.62                       |                                |                              | 21.5                   | 2.5         |
| 10              | 256QAM     | 1       | 1         | 18.06                       |                                |                              | 19.5                   | 4.5         |
| Channel         |            |         |           | 158100                      | 159000                         | 159100                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 790.5                       | 793                            | 795.5                        |                        |             |
| 5               | QPSK       | 1       | 1         | 22.80                       | 22.78                          | 22.67                        | 24.0                   | 0.0         |

n25\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                      | 376500                         | 381000                       |                        |             |
| Frequency (MHz) |            |         |           | 1860                        | 1882.5                         | 1905                         |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 23.28                       | 23.41                          | 23.39                        |                        |             |
| 20              | PI2 BPSK   | 1       | 53        | 23.33                       | 23.51                          | 23.31                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 1       | 104       | 23.37                       | 23.48                          | 22.83                        |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.77                       | 23.02                          | 22.96                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 50      | 28        | 23.22                       | 23.45                          | 23.28                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 56        | 22.92                       | 23.04                          | 22.85                        |                        |             |
| 20              | PI2 BPSK   | 100     | 0         | 22.85                       | 23.03                          | 22.84                        | 23.5                   | 0.5         |
| 20              | QPSK       | 1       | 1         | 23.28                       | 23.52                          | 23.28                        |                        |             |
| 20              | QPSK       | 1       | 53        | 23.27                       | 23.48                          | 23.22                        | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 104       | 23.25                       | 23.37                          | 23.18                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.22                       | 22.55                          | 22.46                        | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 23.26                       | 23.50                          | 23.25                        | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 22.43                       | 22.50                          | 22.32                        |                        |             |
| 20              | QPSK       | 100     | 0         | 22.34                       | 22.54                          | 22.37                        | 23.0                   | 1.0         |
| 20              | 16QAM      | 1       | 1         | 22.58                       | 22.53                          | 22.76                        | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.62                       | 20.85                          | 20.89                        | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 19.03                       | 19.37                          | 19.44                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 371500                      | 376500                         | 381500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1857.5                      | 1882.5                         | 1907.5                       |                        |             |
| 15              | QPSK       | 1       | 1         | 23.31                       | 23.40                          | 23.35                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 371000                      | 376500                         | 382000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1855                        | 1882.5                         | 1910                         |                        |             |
| 10              | QPSK       | 1       | 1         | 23.16                       | 23.37                          | 23.12                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 370500                      | 376500                         | 372500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1852.5                      | 1882.5                         | 1912.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 23.13                       | 23.25                          | 23.21                        | 24.0                   | 0.0         |

n25\_Ant 2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                      | 376500                         | 381000                       |                        |             |
| Frequency (MHz) |            |         |           | 1860                        | 1882.5                         | 1905                         |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 23.13                       | 23.28                          | 23.22                        |                        |             |
| 20              | PI2 BPSK   | 1       | 53        | 23.29                       | 23.33                          | 23.23                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 1       | 104       | 23.42                       | 23.37                          | 23.19                        |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.82                       | 22.96                          | 22.81                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 50      | 28        | 23.18                       | 23.35                          | 23.31                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 56        | 22.75                       | 22.90                          | 22.64                        |                        |             |
| 20              | PI2 BPSK   | 100     | 0         | 22.71                       | 22.91                          | 22.83                        | 23.5                   | 0.5         |
| 20              | QPSK       | 1       | 1         | 23.59                       | 23.48                          | 23.35                        |                        |             |
| 20              | QPSK       | 1       | 53        | 23.23                       | 23.36                          | 23.36                        | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 104       | 23.24                       | 23.42                          | 23.19                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.13                       | 22.45                          | 22.30                        | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 23.27                       | 23.45                          | 23.30                        | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 22.31                       | 22.36                          | 22.13                        |                        |             |
| 20              | QPSK       | 100     | 0         | 22.16                       | 22.37                          | 22.27                        | 23.0                   | 1.0         |
| 20              | 16QAM      | 1       | 1         | 22.18                       | 22.25                          | 22.40                        | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.58                       | 20.67                          | 20.94                        | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.51                       | 18.75                          | 18.89                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 371500                      | 376500                         | 381500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1857.5                      | 1882.5                         | 1907.5                       |                        |             |
| 15              | QPSK       | 1       | 1         | 23.20                       | 23.31                          | 23.38                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 371000                      | 376500                         | 382000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1855                        | 1882.5                         | 1910                         |                        |             |
| 10              | QPSK       | 1       | 1         | 23.05                       | 23.37                          | 23.10                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 370500                      | 376500                         | 372500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1852.5                      | 1882.5                         | 1912.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 23.21                       | 23.27                          | 23.18                        | 24.0                   | 0.0         |



n26\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 164800                      | 166300                         | 167800                       |                        |             |
| Frequency (MHz) |            |         |           | 824                         | 831.5                          | 839                          |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                       | 23.07                          | 23.01                        |                        |             |
| 20              | PI2 BPSK   | 1       | 53        | 23.08                       | 23.20                          | 23.14                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 1       | 104       | 23.14                       | 23.17                          | 23.19                        |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.82                       | 22.50                          | 22.57                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 50      | 28        | 23.08                       | 23.13                          | 23.12                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 56        | 22.82                       | 22.79                          | 22.82                        |                        |             |
| 20              | PI2 BPSK   | 100     | 0         | 22.53                       | 22.58                          | 22.66                        | 23.5                   | 0.5         |
| 20              | QPSK       | 1       | 1         | 23.16                       | 23.21                          | 23.12                        |                        |             |
| 20              | QPSK       | 1       | 53        | 23.10                       | 23.12                          | 23.07                        | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 104       | 23.13                       | 23.18                          | 23.10                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.08                       | 22.07                          | 22.10                        | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 23.16                       | 23.19                          | 23.12                        | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 22.27                       | 22.31                          | 22.32                        |                        |             |
| 20              | QPSK       | 100     | 0         | 22.09                       | 22.18                          | 22.15                        | 23.0                   | 1.0         |
| 20              | 16QAM      | 1       | 1         | 22.16                       | 22.16                          | 22.18                        | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.78                       | 20.75                          | 20.89                        | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.23                       | 18.28                          | 18.26                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 164300                      | 166300                         | 168300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 821.5                       | 831.5                          | 841.5                        |                        |             |
| 15              | QPSK       | 1       | 1         | 23.17                       | 23.19                          | 23.01                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 163800                      | 166300                         | 168800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 819                         | 831.5                          | 844                          |                        |             |
| 10              | QPSK       | 1       | 1         | 23.14                       | 23.11                          | 22.94                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 163300                      | 166300                         | 169300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 816.5                       | 831.5                          | 846.5                        |                        |             |
| 5               | QPSK       | 1       | 1         | 23.15                       | 23.17                          | 23.04                        | 24.0                   | 0.0         |

n26\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 164800                      | 166300                         | 167800                       |                        |             |
| Frequency (MHz) |            |         |           | 824                         | 831.5                          | 839                          |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                       | 23.15                          | 23.12                        |                        |             |
| 20              | PI2 BPSK   | 1       | 53        | 23.10                       | 23.12                          | 23.10                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 1       | 104       | 23.16                       | 23.12                          | 23.15                        |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.58                       | 22.57                          | 22.50                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 50      | 28        | 23.07                       | 23.12                          | 23.09                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 56        | 22.70                       | 22.74                          | 22.77                        |                        |             |
| 20              | PI2 BPSK   | 100     | 0         | 22.51                       | 22.63                          | 22.57                        | 23.5                   | 0.5         |
| 20              | QPSK       | 1       | 1         | 23.13                       | 23.17                          | 23.11                        |                        |             |
| 20              | QPSK       | 1       | 53        | 23.12                       | 23.15                          | 23.06                        | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 104       | 23.07                       | 23.11                          | 23.09                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.03                       | 22.07                          | 22.03                        | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 23.11                       | 23.14                          | 23.08                        | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 22.22                       | 22.27                          | 22.20                        |                        |             |
| 20              | QPSK       | 100     | 0         | 22.02                       | 22.11                          | 22.02                        | 23.0                   | 1.0         |
| 20              | 16QAM      | 1       | 1         | 21.67                       | 21.79                          | 21.70                        | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.28                       | 20.32                          | 20.28                        | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.72                       | 18.73                          | 18.62                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 164300                      | 166300                         | 168300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 821.5                       | 831.5                          | 841.5                        |                        |             |
| 15              | QPSK       | 1       | 1         | 23.02                       | 23.08                          | 22.86                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 163800                      | 166300                         | 168800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 819                         | 831.5                          | 844                          |                        |             |
| 10              | QPSK       | 1       | 1         | 22.89                       | 23.11                          | 22.84                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 163300                      | 166300                         | 169300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 816.5                       | 831.5                          | 846.5                        |                        |             |
| 5               | QPSK       | 1       | 1         | 23.07                       | 22.97                          | 23.14                        | 24.0                   | 0.0         |

n30\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 462000                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 2310                           |                              |                        |             |
| 10              | PI2 BPSK   | 1       | 1         |                             | 22.65                          |                              |                        |             |
| 10              | PI2 BPSK   | 1       | 26        |                             | 22.68                          |                              | 24.0                   | 0.0         |
| 10              | PI2 BPSK   | 1       | 50        |                             | 22.66                          |                              |                        |             |
| 10              | PI2 BPSK   | 25      | 0         |                             | 22.13                          |                              | 23.5                   | 0.5         |
| 10              | PI2 BPSK   | 25      | 14        |                             | 22.63                          |                              | 24.0                   | 0.0         |
| 10              | PI2 BPSK   | 25      | 27        |                             | 22.69                          |                              |                        |             |
| 10              | PI2 BPSK   | 50      | 0         |                             | 22.25                          |                              | 23.5                   | 0.5         |
| 10              | QPSK       | 1       | 1         |                             | 22.89                          |                              |                        |             |
| 10              | QPSK       | 1       | 26        |                             | 22.83                          |                              | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 50        |                             | 22.74                          |                              |                        |             |
| 10              | QPSK       | 25      | 0         |                             | 21.81                          |                              | 23.0                   | 1.0         |
| 10              | QPSK       | 25      | 14        |                             | 22.85                          |                              | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        |                             | 21.73                          |                              |                        |             |
| 10              | QPSK       | 50      | 0         |                             | 21.90                          |                              | 23.0                   | 1.0         |
| 10              | 16QAM      | 1       | 1         |                             | 21.93                          |                              | 23.0                   | 1.0         |
| 10              | 64QAM      | 1       | 1         |                             | 20.84                          |                              | 21.5                   | 2.5         |
| 10              | 256QAM     | 1       | 1         |                             | 18.18                          |                              | 19.5                   | 4.5         |
| Channel         |            |         |           | 461500                      | 462000                         | 462500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2307.5                      | 2310                           | 2312.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 22.06                       | 22.83                          | 22.78                        | 24.0                   | 0.0         |



n30\_Ant 2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 462000                      |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 2310                        |                                |                              |                        |             |
| 10              | PI2 BPSK   | 1       | 1         | 21.96                       |                                |                              | 23.0                   | 0.0         |
| 10              | PI2 BPSK   | 1       | 26        | 21.95                       |                                |                              |                        |             |
| 10              | PI2 BPSK   | 1       | 50        | 21.92                       |                                |                              |                        |             |
| 10              | PI2 BPSK   | 25      | 0         | 21.44                       |                                |                              | 22.5                   | 0.5         |
| 10              | PI2 BPSK   | 25      | 14        | 21.96                       |                                |                              | 23.0                   | 0.0         |
| 10              | PI2 BPSK   | 25      | 27        | 21.42                       |                                |                              | 22.5                   | 0.5         |
| 10              | PI2 BPSK   | 50      | 0         | 21.44                       |                                |                              |                        |             |
| 10              | QPSK       | 1       | 1         | 22.00                       |                                |                              | 23.0                   | 0.0         |
| 10              | QPSK       | 1       | 26        | 21.96                       |                                |                              |                        |             |
| 10              | QPSK       | 1       | 50        | 21.97                       |                                |                              |                        |             |
| 10              | QPSK       | 25      | 0         | 20.88                       |                                |                              | 22.0                   | 1.0         |
| 10              | QPSK       | 25      | 14        | 21.97                       |                                |                              | 23.0                   | 0.0         |
| 10              | QPSK       | 25      | 27        | 20.98                       |                                |                              | 22.0                   | 1.0         |
| 10              | QPSK       | 50      | 0         | 20.93                       |                                |                              |                        |             |
| 10              | 16QAM      | 1       | 1         | 20.85                       |                                |                              | 22.0                   | 1.0         |
| 10              | 64QAM      | 1       | 1         | 19.30                       |                                |                              | 20.5                   | 2.5         |
| 10              | 256QAM     | 1       | 1         | 17.37                       |                                |                              | 18.5                   | 4.5         |
| Channel         |            |         |           | 461500                      | 462000                         | 462500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2307.5                      | 2310                           | 2312.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 21.94                       | 21.94                          | 21.89                        | 23.0                   | 0.0         |

n66\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 346000                      | 349000                         | 352000                       |                        |             |
| Frequency (MHz) |            |         |           | 1730                        | 1745                           | 1760                         |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 23.23                       | 23.25                          | 23.25                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 108       | 23.21                       | 23.23                          | 23.17                        |                        |             |
| 40              | PI2 BPSK   | 1       | 214       | 23.12                       | 23.15                          | 23.20                        |                        |             |
| 40              | PI2 BPSK   | 108     | 0         | 22.84                       | 22.70                          | 22.88                        | 23.5                   | 0.5         |
| 40              | PI2 BPSK   | 108     | 54        | 23.18                       | 23.22                          | 23.17                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 108     | 108       | 22.85                       | 22.82                          | 22.83                        | 23.5                   | 0.5         |
| 40              | PI2 BPSK   | 216     | 0         | 22.77                       | 22.80                          | 22.71                        |                        |             |
| 40              | QPSK       | 1       | 1         | 23.25                       | 23.27                          | 23.24                        | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 23.21                       | 23.25                          | 23.14                        |                        |             |
| 40              | QPSK       | 1       | 214       | 23.11                       | 23.18                          | 23.12                        |                        |             |
| 40              | QPSK       | 108     | 0         | 22.21                       | 22.20                          | 22.21                        | 23.0                   | 1.0         |
| 40              | QPSK       | 108     | 54        | 23.21                       | 23.25                          | 23.19                        | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.34                       | 22.37                          | 22.27                        | 23.0                   | 1.0         |
| 40              | QPSK       | 216     | 0         | 22.18                       | 22.23                          | 22.21                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 22.17                       | 22.28                          | 22.20                        | 23.0                   | 1.0         |
| 40              | 64QAM      | 1       | 1         | 20.30                       | 20.34                          | 20.36                        | 21.5                   | 2.5         |
| 40              | 256QAM     | 1       | 1         | 18.59                       | 18.66                          | 18.63                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 345000                      | 349000                         | 353000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1725                        | 1745                           | 1765                         |                        |             |
| 30              | QPSK       | 1       | 1         | 23.13                       | 23.25                          | 23.16                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 344500                      | 349000                         | 353500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1722.5                      | 1745                           | 1767.5                       |                        |             |
| 25              | QPSK       | 1       | 1         | 23.17                       | 23.22                          | 23.06                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 344000                      | 349000                         | 354000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1720                        | 1745                           | 1770                         |                        |             |
| 20              | QPSK       | 1       | 1         | 22.89                       | 23.02                          | 23.00                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 343500                      | 349000                         | 354500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1717.5                      | 1745                           | 1772.5                       |                        |             |
| 15              | QPSK       | 1       | 1         | 23.16                       | 23.00                          | 23.14                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                      | 349000                         | 355000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1715                        | 1745                           | 1775                         |                        |             |
| 10              | QPSK       | 1       | 1         | 23.23                       | 23.13                          | 22.98                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 342500                      | 349000                         | 355500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1712.5                      | 1745                           | 1777.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 23.19                       | 22.95                          | 23.09                        | 24.0                   | 0.0         |

n66\_Ant 2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 346000                      | 349000                         | 352000                       |                        |             |
| Frequency (MHz) |            |         |           | 1730                        | 1745                           | 1760                         |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 23.15                       | 23.17                          | 23.08                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 108       | 23.14                       | 23.14                          | 22.99                        |                        |             |
| 40              | PI2 BPSK   | 1       | 214       | 22.83                       | 23.12                          | 22.88                        |                        |             |
| 40              | PI2 BPSK   | 108     | 0         | 22.50                       | 22.82                          | 22.48                        | 23.5                   | 0.5         |
| 40              | PI2 BPSK   | 108     | 54        | 22.95                       | 23.13                          | 23.00                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 108     | 108       | 23.15                       | 22.86                          | 22.87                        | 23.5                   | 0.5         |
| 40              | PI2 BPSK   | 216     | 0         | 22.80                       | 22.81                          | 22.82                        |                        |             |
| 40              | QPSK       | 1       | 1         | 23.19                       | 23.19                          | 22.89                        | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 108       | 23.15                       | 23.18                          | 22.78                        |                        |             |
| 40              | QPSK       | 1       | 214       | 23.14                       | 23.09                          | 22.86                        |                        |             |
| 40              | QPSK       | 108     | 0         | 22.05                       | 22.16                          | 22.08                        | 23.0                   | 1.0         |
| 40              | QPSK       | 108     | 54        | 23.13                       | 23.17                          | 22.87                        | 24.0                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 22.21                       | 22.36                          | 22.11                        | 23.0                   | 1.0         |
| 40              | QPSK       | 216     | 0         | 22.21                       | 22.29                          | 22.13                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 22.64                       | 22.57                          | 22.62                        | 23.0                   | 1.0         |
| 40              | 64QAM      | 1       | 1         | 20.41                       | 20.57                          | 20.70                        | 21.5                   | 2.5         |
| 40              | 256QAM     | 1       | 1         | 18.86                       | 18.97                          | 18.88                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 345000                      | 349000                         | 353000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1725                        | 1745                           | 1765                         |                        |             |
| 30              | QPSK       | 1       | 1         | 23.15                       | 23.13                          | 22.84                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 344500                      | 349000                         | 353500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1722.5                      | 1745                           | 1767.5                       |                        |             |
| 25              | QPSK       | 1       | 1         | 23.07                       | 23.18                          | 22.92                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 344000                      | 349000                         | 354000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1720                        | 1745                           | 1770                         |                        |             |
| 20              | QPSK       | 1       | 1         | 23.17                       | 23.11                          | 22.88                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 343500                      | 349000                         | 354500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1717.5                      | 1745                           | 1772.5                       |                        |             |
| 15              | QPSK       | 1       | 1         | 23.11                       | 23.14                          | 22.88                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 343000                      | 349000                         | 355000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1715                        | 1745                           | 1775                         |                        |             |
| 10              | QPSK       | 1       | 1         | 23.01                       | 23.14                          | 22.96                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 342500                      | 349000                         | 355500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1712.5                      | 1745                           | 1777.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 23.05                       | 23.07                          | 22.73                        | 24.0                   | 0.0         |



| n70_Ant 1       |            |         |           |                          |                             |                           |                        |             |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 340500                   |                             |                           |                        |             |
| Frequency (MHz) |            |         |           | 1702.5                   |                             |                           |                        |             |
| 15              | PI/2 BPSK  | 1       | 1         |                          | 23.27                       |                           | 24.0                   | 0.0         |
| 15              | PI/2 BPSK  | 1       | 40        |                          | 23.23                       |                           |                        |             |
| 15              | PI/2 BPSK  | 1       | 77        |                          | 23.18                       |                           |                        |             |
| 15              | PI/2 BPSK  | 36      | 0         |                          | 22.81                       |                           | 23.5                   | 0.5         |
| 15              | PI/2 BPSK  | 36      | 22        |                          | 23.21                       |                           | 24.0                   | 0.0         |
| 15              | PI/2 BPSK  | 36      | 43        |                          | 22.71                       |                           |                        |             |
| 15              | PI/2 BPSK  | 75      | 0         |                          | 22.85                       |                           | 23.5                   | 0.5         |
| 15              | QPSK       | 1       | 1         |                          | 23.30                       |                           |                        |             |
| 15              | QPSK       | 1       | 40        |                          | 23.22                       |                           | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 77        |                          | 23.16                       |                           |                        |             |
| 15              | QPSK       | 36      | 0         |                          | 22.12                       |                           | 23.0                   | 1.0         |
| 15              | QPSK       | 36      | 22        |                          | 23.26                       |                           | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        |                          | 22.13                       |                           |                        |             |
| 15              | QPSK       | 75      | 0         |                          | 22.23                       |                           | 23.0                   | 1.0         |
| 15              | 16QAM      | 1       | 1         |                          | 22.25                       |                           | 23.0                   | 1.0         |
| 15              | 64QAM      | 1       | 1         |                          | 20.67                       |                           | 21.5                   | 2.5         |
| 15              | 256QAM     | 1       | 1         |                          | 18.87                       |                           | 19.5                   | 4.5         |
| Channel         |            |         |           | 340200                   | 340500                      | 341000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1700                     | 1702.5                      | 1705                      |                        |             |
| 10              | QPSK       | 1       | 1         | 23.15                    | 23.18                       | 23.06                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 339500                   | 340500                      | 341500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1697.5                   | 1702.5                      | 1707.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 23.02                    | 23.26                       | 22.98                     | 24.0                   | 0.0         |

| n70_Ant 2       |            |         |           |                          |                             |                           |                        |             |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dbm) | MPR<br>(db) |
| Channel         |            |         |           | 340500                   |                             |                           |                        |             |
| Frequency (MHz) |            |         |           | 1702.5                   |                             |                           |                        |             |
| 15              | PI2 BPSK   | 1       | 1         |                          | 22.33                       |                           |                        |             |
| 15              | PI2 BPSK   | 1       | 40        |                          | 22.30                       |                           | 24.0                   | 0.0         |
| 15              | PI2 BPSK   | 1       | 77        |                          | 22.26                       |                           |                        |             |
| 15              | PI2 BPSK   | 36      | 0         |                          | 21.59                       |                           | 23.5                   | 0.5         |
| 15              | PI2 BPSK   | 36      | 22        |                          | 22.17                       |                           | 24.0                   | 0.0         |
| 15              | PI2 BPSK   | 36      | 43        |                          | 21.72                       |                           |                        |             |
| 15              | PI2 BPSK   | 75      | 0         |                          | 21.74                       |                           | 23.5                   | 0.5         |
| 15              | QPSK       | 1       | 1         |                          | 22.35                       |                           |                        |             |
| 15              | QPSK       | 1       | 40        |                          | 22.32                       |                           | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 77        |                          | 22.25                       |                           |                        |             |
| 15              | QPSK       | 36      | 0         |                          | 21.14                       |                           | 23.0                   | 1.0         |
| 15              | QPSK       | 36      | 22        |                          | 22.32                       |                           | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        |                          | 21.24                       |                           |                        |             |
| 15              | QPSK       | 75      | 0         |                          | 21.24                       |                           | 23.0                   | 1.0         |
| 15              | 16QAM      | 1       | 1         |                          | 21.10                       |                           | 23.0                   | 1.0         |
| 15              | 64QAM      | 1       | 1         |                          | 20.00                       |                           | 21.5                   | 2.5         |
| 15              | 256QAM     | 1       | 1         |                          | 17.92                       |                           | 19.5                   | 4.5         |
| Channel         |            |         |           | 340000                   | 340500                      | 341000                    | Tune-up limit<br>(dbm) | MPR<br>(db) |
| Frequency (MHz) |            |         |           | 1700                     | 1702.5                      | 1705                      |                        |             |
| 10              | QPSK       | 1       | 1         | 22.31                    | 22.26                       | 22.18                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 339500                   | 340500                      | 341500                    | Tune-up limit<br>(dbm) | MPR<br>(db) |
| Frequency (MHz) |            |         |           | 1697.5                   | 1702.5                      | 1707.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 22.07                    | 22.29                       | 22.09                     | 24.0                   | 0.0         |



| n71_Ant 0       |            |         |           |                      |                       |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------|-----------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Mode Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 134600               | 136100                | 137600                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 673                  | 680.5                 | 688                   |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.72                | 22.75                 | 22.79                 |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 53        | 22.71                | 22.65                 | 22.75                 |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.73                | 22.80                 | 22.80                 | 23.5                | 0.5      |  |
| 20              | PI/2 BPSK  | 50      | 0         | 21.67                | 22.28                 | 22.15                 | 23.5                | 0.5      |  |
| 20              | PI/2 BPSK  | 50      | 28        | 22.72                | 22.74                 | 22.78                 | 24.0                | 0.0      |  |
| 20              | PI/2 BPSK  | 50      | 56        | 21.79                | 22.14                 | 22.42                 | 23.5                | 0.5      |  |
| 20              | PI/2 BPSK  | 100     | 0         | 21.76                | 22.22                 | 22.27                 | 23.5                | 0.5      |  |
| 20              | QPSK       | 1       | 1         | 22.76                | 22.84                 | 22.76                 | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 22.66                | 22.68                 | 22.65                 |                     |          |  |
| 20              | QPSK       | 1       | 104       | 22.71                | 22.79                 | 22.74                 |                     |          |  |
| 20              | QPSK       | 50      | 0         | 21.65                | 21.76                 | 21.73                 |                     | 1.0      |  |
| 20              | QPSK       | 50      | 28        | 22.73                | 22.81                 | 22.74                 | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 21.57                | 21.66                 | 21.68                 | 23.0                | 1.0      |  |
| 20              | QPSK       | 100     | 0         | 21.69                | 21.77                 | 21.76                 | 23.0                | 1.0      |  |
| 20              | 16QAM      | 1       | 1         | 21.60                | 21.65                 | 21.67                 | 23.0                | 1.0      |  |
| 20              | 64QAM      | 1       | 1         | 20.29                | 20.35                 | 20.38                 | 21.5                | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 17.80                | 17.85                 | 17.88                 | 19.5                | 4.5      |  |
| Channel         |            |         |           | 134100               | 136100                | 138100                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 670.5                | 680.5                 | 690.5                 | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 22.74                | 22.69                 | 22.66                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 133600               | 136100                | 138600                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 668                  | 680.5                 | 693                   | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 22.64                | 22.73                 | 22.59                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 133100               | 136100                | 139100                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 665.5                | 680.5                 | 695.5                 | 24.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 22.72                | 22.76                 | 22.73                 | 24.0                | 0.0      |  |

| n71_Ant 1       |            |         |           |                      |                       |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------|-----------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Mode Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 134600               | 136100                | 137600                | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 673                  | 680.5                 | 688                   |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.76                | 22.83                 | 22.79                 |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 53        | 22.69                | 22.81                 | 22.81                 |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.69                | 22.74                 | 22.72                 | 23.5                | 0.5      |  |
| 20              | PI/2 BPSK  | 50      | 0         | 22.37                | 22.35                 | 22.29                 | 23.5                | 0.5      |  |
| 20              | PI/2 BPSK  | 50      | 28        | 22.70                | 22.75                 | 22.73                 | 24.0                | 0.0      |  |
| 20              | PI/2 BPSK  | 50      | 56        | 22.19                | 22.26                 | 22.16                 | 23.5                | 0.5      |  |
| 20              | PI/2 BPSK  | 100     | 0         | 22.34                | 22.37                 | 22.25                 | 23.5                | 0.5      |  |
| 20              | QPSK       | 1       | 1         | 22.80                | 22.84                 | 22.79                 | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 22.67                | 22.76                 | 22.73                 |                     |          |  |
| 20              | QPSK       | 1       | 104       | 22.76                | 22.82                 | 22.78                 |                     |          |  |
| 20              | QPSK       | 50      | 0         | 21.76                | 21.78                 | 21.74                 |                     | 1.0      |  |
| 20              | QPSK       | 50      | 28        | 22.76                | 22.80                 | 22.77                 | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 21.72                | 21.71                 | 21.65                 | 23.0                | 1.0      |  |
| 20              | QPSK       | 100     | 0         | 21.67                | 21.76                 | 21.69                 | 23.0                | 1.0      |  |
| 20              | 16QAM      | 1       | 1         | 21.65                | 21.75                 | 21.77                 | 23.0                | 1.0      |  |
| 20              | 64QAM      | 1       | 1         | 19.98                | 19.98                 | 19.88                 | 21.5                | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 18.52                | 18.53                 | 18.53                 | 19.5                | 4.5      |  |
| Channel         |            |         |           | 134100               | 136100                | 138100                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 670.5                | 680.5                 | 690.5                 | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 22.78                | 22.76                 | 22.80                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 133600               | 136100                | 138600                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 668                  | 680.5                 | 693                   | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 22.67                | 22.68                 | 22.71                 | 24.0                | 0.0      |  |
| Channel         |            |         |           | 133100               | 136100                | 139100                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 665.5                | 680.5                 | 695.5                 | 24.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 22.71                | 22.82                 | 22.67                 | 24.0                | 0.0      |  |



| n38_Ant 1       |            |         |           |                          |                             |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 516004                   | 516000                      | 516996                    | 24.0                   | 0.0         |  |
| Frequency (MHz) |            |         |           | 2590.02                  | 2595                        | 2599.98                   |                        |             |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.92                    | 22.90                       | 22.92                     |                        |             |  |
| 40              | PI2 BPSK   | 1       | 53        | 22.91                    | 22.82                       | 22.85                     | 24.0                   | 0.0         |  |
| 40              | PI2 BPSK   | 1       | 104       | 22.90                    | 22.83                       | 22.82                     |                        |             |  |
| 40              | PI2 BPSK   | 50      | 0         | 22.41                    | 22.34                       | 22.20                     |                        |             |  |
| 40              | PI2 BPSK   | 50      | 26        | 22.86                    | 22.91                       | 22.77                     | 23.5                   | 0.5         |  |
| 40              | PI2 BPSK   | 50      | 56        | 22.40                    | 22.29                       | 22.29                     |                        |             |  |
| 40              | PI2 BPSK   | 100     | 0         | 22.48                    | 22.39                       | 22.36                     |                        |             |  |
| 40              | QPSK       | 1       | 1         | 22.96                    | 22.96                       | 22.95                     | 24.0                   | 0.0         |  |
| 40              | QPSK       | 1       | 53        | 22.89                    | 22.88                       | 22.82                     |                        |             |  |
| 40              | QPSK       | 1       | 104       | 22.95                    | 22.84                       | 22.78                     |                        |             |  |
| 40              | QPSK       | 50      | 0         | 21.83                    | 21.85                       | 21.81                     | 24.0                   | 0.0         |  |
| 40              | QPSK       | 50      | 26        | 22.92                    | 22.95                       | 22.92                     |                        |             |  |
| 40              | QPSK       | 50      | 56        | 21.86                    | 21.84                       | 21.80                     |                        |             |  |
| 40              | QPSK       | 100     | 0         | 21.87                    | 21.85                       | 21.80                     | 23.0                   | 1.0         |  |
| 40              | 16QAM      | 1       | 1         | 22.23                    | 22.26                       | 22.15                     |                        |             |  |
| 40              | 64QAM      | 1       | 1         | 20.62                    | 20.58                       | 20.60                     |                        | 21.5        |  |
| 40              | 256QAM     | 1       | 1         | 16.70                    | 16.61                       | 16.52                     | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 517002                   | 516990                      | 520008                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2585.01                  | 2595                        | 2604.99                   |                        |             |  |
| 30              | QPSK       | 1       | 1         | 22.80                    | 22.71                       | 22.89                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 516504                   | 516000                      | 521496                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2562.52                  | 2595                        | 2607.48                   |                        |             |  |
| 25              | QPSK       | 1       | 1         | 22.73                    | 22.82                       | 22.93                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 516000                   | 516000                      | 522000                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.96                    | 22.89                       | 22.72                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 515502                   | 516000                      | 522498                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2577.51                  | 2595                        | 2612.49                   |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.61                    | 22.87                       | 22.69                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 515004                   | 516000                      | 522996                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2575.02                  | 2595                        | 2614.98                   |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.68                    | 22.59                       | 22.73                     | 24.0                   | 0.0         |  |

| n41_Ant 0(FCC)  |            |         |           |                          |                             |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 509002                   | 518998                      | 526000                    | 24.0                   | 0.0         |  |
| Frequency (MHz) |            |         |           | 2646.01                  | 2592.99                     | 2640                      |                        |             |  |
| 100             | PI2 BPSK   | 1       | 1         | 22.56                    | 22.60                       | 22.55                     |                        |             |  |
| 100             | PI2 BPSK   | 1       | 137       | 22.51                    | 22.59                       | 22.52                     | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 1       | 271       | 22.54                    | 22.52                       | 22.57                     |                        |             |  |
| 100             | PI2 BPSK   | 135     | 0         | 22.50                    | 22.52                       | 22.54                     |                        |             |  |
| 100             | PI2 BPSK   | 135     | 69        | 22.54                    | 22.54                       | 22.59                     | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 135     | 138       | 22.55                    | 22.53                       | 22.55                     |                        |             |  |
| 100             | PI2 BPSK   | 270     | 0         | 22.57                    | 22.60                       | 22.61                     |                        |             |  |
| 100             | QPSK       | 1       | 1         | 22.59                    | 22.62                       | 22.56                     | 24.0                   | 0.0         |  |
| 100             | QPSK       | 1       | 137       | 22.58                    | 22.55                       | 22.49                     |                        |             |  |
| 100             | QPSK       | 1       | 271       | 22.58                    | 22.59                       | 22.52                     |                        |             |  |
| 100             | QPSK       | 135     | 0         | 22.51                    | 22.53                       | 22.50                     | 24.0                   | 0.0         |  |
| 100             | QPSK       | 135     | 69        | 22.52                    | 22.60                       | 22.54                     |                        |             |  |
| 100             | QPSK       | 135     | 138       | 22.50                    | 22.53                       | 22.52                     |                        |             |  |
| 100             | QPSK       | 270     | 0         | 22.46                    | 22.57                       | 22.50                     | 24.0                   | 0.0         |  |
| 100             | 16QAM      | 1       | 1         | 22.56                    | 22.58                       | 22.60                     |                        |             |  |
| 100             | 64QAM      | 1       | 1         | 22.53                    | 22.58                       | 22.58                     |                        | 24.0        |  |
| 100             | 256QAM     | 1       | 1         | 20.76                    | 20.75                       | 20.70                     | 22.5                   | 1.5         |  |
| Channel         |            |         |           | 508000                   | 518998                      | 525999                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2641                     | 2592.99                     | 2644.98                   |                        |             |  |
| 90              | QPSK       | 1       | 1         | 22.24                    | 22.42                       | 22.49                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 507204                   | 518998                      | 525998                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2536.02                  | 2592.99                     | 2649.99                   |                        |             |  |
| 80              | QPSK       | 1       | 1         | 22.16                    | 22.26                       | 22.46                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 506202                   | 518998                      | 531000                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2531.01                  | 2592.99                     | 2655                      |                        |             |  |
| 70              | QPSK       | 1       | 1         | 22.17                    | 22.31                       | 22.39                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 505200                   | 518998                      | 531996                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2526                     | 2592.99                     | 2659.98                   |                        |             |  |
| 60              | QPSK       | 1       | 1         | 22.34                    | 22.52                       | 22.46                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 504204                   | 518998                      | 532999                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2521.02                  | 2592.99                     | 2664.99                   |                        |             |  |
| 50              | QPSK       | 1       | 1         | 22.31                    | 22.24                       | 22.42                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 503202                   | 518998                      | 534000                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2516.01                  | 2592.99                     | 2670                      |                        |             |  |
| 40              | QPSK       | 1       | 1         | 22.28                    | 22.25                       | 22.37                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502200                   | 518998                      | 534999                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2511                     | 2592.99                     | 2674.98                   |                        |             |  |
| 30              | QPSK       | 1       | 1         | 22.38                    | 22.30                       | 22.54                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501204                   | 518998                      | 535998                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2506.02                  | 2592.99                     | 2679.99                   |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.16                    | 22.14                       | 22.38                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500700                   | 518998                      | 536999                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2503.5                   | 2592.99                     | 2682.48                   |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.14                    | 22.46                       | 22.52                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500202                   | 518998                      | 537000                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2501.01                  | 2592.99                     | 2685                      |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.27                    | 22.42                       | 22.40                     | 24.0                   | 0.0         |  |

| n41(HPUE)_Ant 0(FCC) |            |         |           |                          |                             |                           |                     |          |  |
|----------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------|----------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |            |         |           | 509002                   | 518998                      | 526000                    | 24.0                | 0.0      |  |
| Frequency (MHz)      |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 1         | 25.54                    | 25.57                       | 25.38                     |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 137       | 25.50                    | 25.55                       | 25.37                     | 27.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 1       | 271       | 25.47                    | 25.56                       | 25.36                     |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 0         | 25.02                    | 25.00                       | 24.88                     |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 69        | 25.50                    | 25.56                       | 25.29                     | 26.5                | 0.5      |  |
| 100                  | PI2 BPSK   | 135     | 138       | 24.97                    | 25.01                       | 24.95                     |                     |          |  |
| 100                  | PI2 BPSK   | 270     | 0         | 24.95                    | 24.98                       | 24.94                     |                     |          |  |
| 100                  | QPSK       | 1       | 1         | 25.55                    | 25.58                       | 25.40                     | 27.0                | 0.0      |  |
| 100                  | QPSK       | 1       | 137       | 25.48                    | 25.54                       | 25.33                     |                     |          |  |
| 100                  | QPSK       | 1       | 271       | 25.36                    | 25.45                       | 25.30                     |                     |          |  |
| 100                  | QPSK       | 135     | 0         | 24.33                    | 24.54                       | 24.33                     | 27.0                | 0.0      |  |
| 100                  | QPSK       | 135     | 69        | 25.52                    | 25.55                       | 25.36                     |                     |          |  |
| 100                  | QPSK       | 135     | 138       | 24.41                    | 24.55                       | 24.31                     |                     |          |  |
| 100                  | QPSK       | 270     | 0         | 24.32                    | 24.58                       | 24.40                     | 26.0                | 1.0      |  |
| 100                  | 16QAM      | 1       | 1         | 24.31                    | 24.46                       | 24.35                     |                     |          |  |
| 100                  | 64QAM      | 1       | 1         | 22.82                    | 22.97                       | 22.89                     |                     |          |  |
| 100                  | 256QAM     | 1       | 1         | 20.70                    | 20.81                       | 20.71                     | 22.5                | 4.5      |  |
| Channel              |            |         |           | 508000                   | 518998                      | 525999                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2541                     | 2592.99                     | 2644.98                   |                     |          |  |
| 90                   | QPSK       | 1       | 1         | 25.28                    | 25.22                       | 25.15                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 507204                   | 518998                      | 525998                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2536.02                  | 2592.99                     | 2649.99                   |                     |          |  |
| 80                   | QPSK       | 1       | 1         | 25.24                    | 25.30                       | 25.20                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 506202                   | 518998                      | 531000                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2531.01                  | 2592.99                     | 2655                      |                     |          |  |
| 70                   | QPSK       | 1       | 1         | 25.13                    | 25.30                       | 25.18                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 505200                   | 518998                      | 531996                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2526                     | 2592.99                     | 2659.98                   |                     |          |  |
| 60                   | QPSK       | 1       | 1         | 25.10                    | 25.10                       | 25.14                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 504204                   | 518998                      | 532998                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2511.02                  | 2592.99                     | 2674.99                   |                     |          |  |
| 50                   | QPSK       | 1       | 1         | 25.16                    | 25.15                       | 25.22                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 503202                   | 518998                      | 534000                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2516.01                  | 2592.99                     | 2670                      |                     |          |  |
| 40                   | QPSK       | 1       | 1         | 25.24                    | 25.46                       | 25.29                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 502200                   | 518998                      | 534996                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2511                     | 2592.99                     | 2674.98                   |                     |          |  |
| 30                   | QPSK       | 1       | 1         | 25.44                    | 25.52                       | 25.09                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 501204                   | 518998                      | 535998                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2506.02                  | 2592.99                     | 2679.99                   |                     |          |  |
| 20                   | QPSK       | 1       | 1         | 25.35                    | 25.32                       | 25.12                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 500700                   | 518998                      | 536996                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2503                     | 2592.99                     | 2672.48                   |                     |          |  |
| 15                   | QPSK       | 1       | 1         | 25.29                    | 25.34                       | 25.37                     | 27.0                | 0.0      |  |
| Channel              |            |         |           | 500202                   | 518998                      | 537000                    |                     |          |  |
| Frequency (MHz)      |            |         |           | 2501.01                  | 2592.99                     | 2685                      |                     |          |  |
| 10                   | QPSK       | 1       | 1         | 25.44                    | 25.44                       | 25.15                     | 27.0                | 0.0      |  |



n41\_Ant 1(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 500202                | 518598                   | 530000                 |                     |          |
| Frequency (MHz) |            |         |           | 2548.01               | 2592.99                  | 2640                   |                     |          |
| 100             | P12 BPSK   | 1       | 1         | 22.95                 | 22.96                    | 22.89                  |                     |          |
| 100             | P12 BPSK   | 1       | 137       | 22.81                 | 22.80                    | 22.78                  | 24.0                | 0.0      |
| 100             | P12 BPSK   | 1       | 271       | 22.79                 | 22.77                    | 22.65                  |                     |          |
| 100             | P12 BPSK   | 135     | 0         | 22.73                 | 22.88                    | 22.87                  | 24.0                | 0.0      |
| 100             | P12 BPSK   | 135     | 69        | 22.92                 | 22.87                    | 22.79                  | 24.0                | 0.0      |
| 100             | P12 BPSK   | 135     | 138       | 22.72                 | 22.74                    | 22.68                  |                     |          |
| 100             | P12 BPSK   | 270     | 0         | 22.56                 | 22.70                    | 22.56                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 22.57                 | 22.99                    | 22.97                  |                     |          |
| 100             | QPSK       | 1       | 137       | 22.68                 | 22.80                    | 22.83                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 22.66                 | 22.74                    | 22.75                  |                     |          |
| 100             | QPSK       | 135     | 0         | 22.73                 | 22.88                    | 22.81                  |                     |          |
| 100             | QPSK       | 135     | 69        | 22.94                 | 22.96                    | 22.85                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 22.50                 | 22.64                    | 22.55                  |                     |          |
| 100             | QPSK       | 270     | 0         | 22.63                 | 22.92                    | 22.60                  | 24.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 22.97                 | 22.98                    | 22.91                  | 24.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 22.81                 | 22.94                    | 22.87                  | 24.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 21.24                 | 21.34                    | 21.23                  | 22.5                | 1.5      |
| Channel         |            |         |           | 503200                | 518598                   | 529999                 |                     |          |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 22.72                 | 22.83                    | 22.89                  | 24.0                | 0.0      |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 |                     |          |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 22.56                 | 22.71                    | 22.61                  | 24.0                | 0.0      |
| Channel         |            |         |           | 502202                | 518598                   | 531000                 |                     |          |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70              | QPSK       | 1       | 1         | 22.71                 | 22.71                    | 22.92                  | 24.0                | 0.0      |
| Channel         |            |         |           | 506200                | 518598                   | 531998                 |                     |          |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 22.65                 | 22.56                    | 22.70                  | 24.0                | 0.0      |
| Channel         |            |         |           | 504204                | 518598                   | 532999                 |                     |          |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 22.67                 | 22.65                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 |                     |          |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.55                 | 22.78                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           | 502200                | 518598                   | 534999                 |                     |          |
| Frequency (MHz) |            |         |           | 2511                  | 2592.98                  | 2674.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.63                 | 22.67                    | 22.68                  | 24.0                | 0.0      |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 |                     |          |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 22.53                 | 22.57                    | 22.96                  | 24.0                | 0.0      |
| Channel         |            |         |           | 500700                | 518598                   | 536999                 |                     |          |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.98                  | 2682.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.69                 | 22.68                    | 22.70                  | 24.0                | 0.0      |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 |                     |          |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |
| 10              | QPSK       | 1       | 1         | 22.54                 | 22.83                    | 22.80                  | 24.0                | 0.0      |

n41(HPUE)\_Ant 1(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 500202                | 518598                   | 530000                 |                     |          |
| Frequency (MHz) |            |         |           | 2548.01               | 2592.99                  | 2640                   |                     |          |
| 100             | P12 BPSK   | 1       | 1         | 25.92                 | 25.94                    | 25.76                  |                     |          |
| 100             | P12 BPSK   | 1       | 137       | 25.90                 | 25.81                    | 25.65                  | 27.0                | 0.0      |
| 100             | P12 BPSK   | 1       | 271       | 25.91                 | 25.76                    | 25.73                  |                     |          |
| 100             | P12 BPSK   | 135     | 0         | 25.51                 | 25.39                    | 25.12                  | 26.5                | 0.5      |
| 100             | P12 BPSK   | 135     | 69        | 25.40                 | 25.91                    | 25.79                  | 27.0                | 0.0      |
| 100             | P12 BPSK   | 135     | 138       | 25.47                 | 25.20                    | 25.14                  |                     |          |
| 100             | P12 BPSK   | 270     | 0         | 25.47                 | 25.22                    | 25.13                  | 26.5                | 0.5      |
| 100             | QPSK       | 1       | 1         | 25.92                 | 25.95                    | 25.84                  |                     |          |
| 100             | QPSK       | 1       | 137       | 25.91                 | 25.87                    | 25.67                  | 27.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 25.89                 | 25.75                    | 25.64                  |                     |          |
| 100             | QPSK       | 135     | 0         | 24.87                 | 24.86                    | 24.79                  |                     |          |
| 100             | QPSK       | 135     | 69        | 25.10                 | 25.92                    | 25.81                  | 27.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 24.96                 | 24.87                    | 24.74                  |                     |          |
| 100             | QPSK       | 270     | 0         | 24.91                 | 24.94                    | 24.73                  | 26.0                | 1.0      |
| 100             | 16QAM      | 1       | 1         | 25.05                 | 25.02                    | 25.04                  | 26.0                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 23.31                 | 23.41                    | 23.29                  | 24.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 21.45                 | 21.50                    | 21.45                  | 22.5                | 4.5      |
| Channel         |            |         |           | 503200                | 518598                   | 529999                 |                     |          |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 25.62                 | 25.66                    | 25.53                  | 27.0                | 0.0      |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 |                     |          |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 25.36                 | 25.71                    | 25.40                  | 27.0                | 0.0      |
| Channel         |            |         |           | 502202                | 518598                   | 531000                 |                     |          |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70              | QPSK       | 1       | 1         | 25.50                 | 25.62                    | 25.48                  | 27.0                | 0.0      |
| Channel         |            |         |           | 506200                | 518598                   | 531998                 |                     |          |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 25.53                 | 25.43                    | 25.60                  | 27.0                | 0.0      |
| Channel         |            |         |           | 504204                | 518598                   | 532999                 |                     |          |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 25.52                 | 25.65                    | 25.38                  | 27.0                | 0.0      |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 |                     |          |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 25.67                 | 25.44                    | 25.57                  | 27.0                | 0.0      |
| Channel         |            |         |           | 502200                | 518598                   | 534999                 |                     |          |
| Frequency (MHz) |            |         |           | 2511                  | 2592.98                  | 2674.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 25.62                 | 25.47                    | 25.40                  | 27.0                | 0.0      |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 |                     |          |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 25.58                 | 25.47                    | 25.26                  | 27.0                | 0.0      |
| Channel         |            |         |           | 500700                | 518598                   | 536999                 |                     |          |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.98                  | 2682.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 25.55                 | 25.73                    | 25.60                  | 27.0                | 0.0      |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 |                     |          |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |
| 10              | QPSK       | 1       | 1         | 25.36                 | 25.64                    | 25.36                  | 27.0                | 0.0      |

n41\_Ant 2(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 500202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | P12 BPSK   | 1       | 1         | 22.84                 | 22.84                    | 22.75                  |                     |          |
| 100             | P12 BPSK   | 1       | 137       | 22.80                 | 22.80                    | 22.70                  | 24.0                | 0.0      |
| 100             | P12 BPSK   | 1       | 271       | 22.81                 | 22.76                    | 22.72                  |                     |          |
| 100             | P12 BPSK   | 135     | 0         | 22.82                 | 22.74                    | 22.67                  | 24.0                | 0.0      |
| 100             | P12 BPSK   | 135     | 69        | 22.82                 | 22.83                    | 22.74                  | 24.0                | 0.0      |
| 100             | P12 BPSK   | 135     | 138       | 22.80                 | 22.73                    | 22.63                  | 24.0                | 0.0      |
| 100             | P12 BPSK   | 270     | 0         | 22.78                 | 22.75                    | 22.78                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 22.85                 | 22.88                    | 22.80                  |                     |          |
| 100             | QPSK       | 1       | 137       | 22.82                 | 22.76                    | 22.79                  | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 22.77                 | 22.83                    | 22.77                  |                     |          |
| 100             | QPSK       | 135     | 0         | 22.78                 | 22.85                    | 22.70                  |                     |          |
| 100             | QPSK       | 135     | 69        | 22.83                 | 22.86                    | 22.76                  | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 22.82                 | 22.71                    | 22.72                  |                     |          |
| 100             | QPSK       | 270     | 0         | 22.80                 | 22.84                    | 22.78                  | 24.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 22.81                 | 22.78                    | 22.79                  | 24.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 22.78                 | 22.79                    | 22.71                  | 24.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 21.35                 | 21.31                    | 21.26                  | 22.5                | 1.5      |
| Channel         |            |         |           | 503200                | 518598                   | 528998                 |                     |          |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 22.77                 | 22.67                    | 22.67                  | 24.0                | 0.0      |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 |                     |          |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 22.66                 | 22.63                    | 22.53                  | 24.0                | 0.0      |
| Channel         |            |         |           | 502202                | 518598                   | 531000                 |                     |          |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70              | QPSK       | 1       | 1         | 22.49                 | 22.62                    | 22.73                  | 24.0                | 0.0      |
| Channel         |            |         |           | 506200                | 518598                   | 531998                 |                     |          |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 22.65                 | 22.55                    | 22.47                  | 24.0                | 0.0      |
| Channel         |            |         |           | 504204                | 518598                   | 532999                 |                     |          |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 22.74                 | 22.86                    | 22.82                  | 24.0                | 0.0      |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 |                     |          |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.80                 | 22.70                    | 22.71                  | 24.0                | 0.0      |
| Channel         |            |         |           | 502200                | 518598                   | 534999                 |                     |          |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.63                 | 22.65                    | 22.78                  | 24.0                | 0.0      |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 |                     |          |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 22.48                 | 22.72                    | 22.67                  | 24.0                | 0.0      |
| Channel         |            |         |           | 500700                | 518598                   | 536999                 |                     |          |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.46                 | 22.59                    | 22.77                  | 24.0                | 0.0      |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 |                     |          |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |
| 10              | QPSK       | 1       | 1         | 22.72                 | 22.77                    | 22.57                  | 24.0                | 0.0      |



| n41(HPUE)_Ant 2(FCC) |            |         |           |                      |                         |                       |                     |          |  |
|----------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |            |         |           | 500202               | 518598                  | 537000                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2548.01              | 2592.99                 | 2640                  |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 1         | 25.78                | 25.83                   | 25.74                 | 27.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 1       | 137       | 25.72                | 25.77                   | 25.71                 |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 271       | 25.74                | 25.74                   | 25.70                 |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 0         | 25.48                | 25.31                   | 25.20                 | 26.5                | 0.5      |  |
| 100                  | PI2 BPSK   | 135     | 69        | 25.77                | 25.79                   | 25.70                 | 27.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 135     | 138       | 25.41                | 25.33                   | 25.16                 | 26.5                | 0.5      |  |
| 100                  | PI2 BPSK   | 270     | 0         | 25.38                | 25.27                   | 25.22                 | 27.0                | 0.0      |  |
| 100                  | QPSK       | 1       | 1         | 25.80                | 25.85                   | 25.76                 |                     |          |  |
| 100                  | QPSK       | 1       | 137       | 25.78                | 25.80                   | 25.85                 |                     |          |  |
| 100                  | QPSK       | 1       | 271       | 25.72                | 25.83                   | 25.75                 | 27.0                | 0.0      |  |
| 100                  | QPSK       | 135     | 0         | 24.88                | 24.85                   | 24.83                 |                     |          |  |
| 100                  | QPSK       | 135     | 69        | 25.76                | 25.83                   | 25.74                 |                     |          |  |
| 100                  | QPSK       | 135     | 138       | 24.88                | 24.82                   | 24.80                 | 26.0                | 1.0      |  |
| 100                  | QPSK       | 270     | 0         | 24.69                | 24.84                   | 24.83                 | 26.0                | 1.0      |  |
| 100                  | 16QAM      | 1       | 1         | 24.36                | 24.56                   | 24.37                 | 24.5                | 2.5      |  |
| 100                  | 64QAM      | 1       | 1         | 23.19                | 23.32                   | 23.12                 | 22.5                | 4.5      |  |
| 100                  | 256QAM     | 1       | 1         | 21.38                | 21.46                   | 21.28                 | 27.0                | 0.0      |  |
| Channel              |            |         |           | 503200               | 518598                  | 530992                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2541                 | 2592.99                 | 2644.98               |                     |          |  |
| 90                   | QPSK       | 1       | 1         | 25.68                | 25.73                   | 25.78                 |                     | 27.0     |  |
| Channel              |            |         |           | 507204               | 518598                  | 529998                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2536.02              | 2592.99                 | 2649.99               |                     | 27.0     |  |
| 80                   | QPSK       | 1       | 1         | 25.42                | 25.01                   | 25.82                 | 27.0                | 0.0      |  |
| Channel              |            |         |           | 506202               | 518598                  | 531000                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2531.01              | 2592.99                 | 2655                  | 27.0                | 0.0      |  |
| 70                   | QPSK       | 1       | 1         | 25.62                | 25.68                   | 25.55                 |                     | 27.0     |  |
| Channel              |            |         |           | 505200               | 518598                  | 531998                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2526                 | 2592.99                 | 2659.98               |                     | 27.0     |  |
| 60                   | QPSK       | 1       | 1         | 25.71                | 25.59                   | 25.68                 | 27.0                | 0.0      |  |
| Channel              |            |         |           | 504204               | 518598                  | 532992                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2521.02              | 2592.99                 | 2684.99               | 27.0                | 0.0      |  |
| 50                   | QPSK       | 1       | 1         | 25.47                | 25.69                   | 25.55                 |                     | 27.0     |  |
| Channel              |            |         |           | 503202               | 518598                  | 534000                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2516.01              | 2592.99                 | 2670                  |                     | 27.0     |  |
| 40                   | QPSK       | 1       | 1         | 25.38                | 25.59                   | 25.62                 | 27.0                | 0.0      |  |
| Channel              |            |         |           | 502200               | 518598                  | 534996                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2511                 | 2592.98                 | 2674.98               | 27.0                | 0.0      |  |
| 30                   | QPSK       | 1       | 1         | 25.42                | 25.70                   | 25.64                 |                     | 27.0     |  |
| Channel              |            |         |           | 501204               | 518598                  | 535998                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2506.02              | 2592.99                 | 2679.99               |                     | 27.0     |  |
| 20                   | QPSK       | 1       | 1         | 25.42                | 25.80                   | 25.70                 | 27.0                | 0.0      |  |
| Channel              |            |         |           | 500700               | 518598                  | 536996                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2503.5               | 2592.98                 | 2682.48               | 27.0                | 0.0      |  |
| 15                   | QPSK       | 1       | 1         | 25.67                | 25.46                   | 25.61                 |                     | 27.0     |  |
| Channel              |            |         |           | 500202               | 518598                  | 537000                |                     |          |  |
| Frequency (MHz)      |            |         |           | 2501.01              | 2592.99                 | 2685                  |                     | 27.0     |  |
| 10                   | QPSK       | 1       | 1         | 25.73                | 25.50                   | 25.69                 | 27.0                | 0.0      |  |

| n41_Ant 4(FCC)  |            |         |           |                      |                         |                       |                     |          |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 500202               | 518598                  | 530000                |                     |          |  |
| Frequency (MHz) |            |         |           | 2548.01              | 2592.99                 | 2640                  |                     |          |  |
| 100             | PI2 BPSK   | 1       | 1         | 20.25                | 20.32                   | 20.22                 | 21.0                | 0.0      |  |
| 100             | PI2 BPSK   | 1       | 137       | 20.22                | 20.20                   | 20.16                 |                     |          |  |
| 100             | PI2 BPSK   | 1       | 271       | 20.14                | 20.27                   | 20.04                 |                     |          |  |
| 100             | PI2 BPSK   | 135     | 0         | 20.06                | 20.23                   | 20.10                 | 21.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 69        | 20.22                | 20.29                   | 20.20                 | 21.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 138       | 20.11                | 20.14                   | 20.14                 | 21.0                | 0.0      |  |
| 100             | PI2 BPSK   | 270     | 0         | 20.18                | 20.20                   | 20.16                 | 21.0                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 20.26                | 20.39                   | 20.24                 |                     |          |  |
| 100             | QPSK       | 1       | 137       | 20.15                | 20.19                   | 20.11                 |                     |          |  |
| 100             | QPSK       | 1       | 271       | 20.20                | 20.28                   | 20.15                 | 21.0                | 0.0      |  |
| 100             | QPSK       | 135     | 0         | 20.20                | 20.22                   | 20.07                 |                     |          |  |
| 100             | QPSK       | 135     | 69        | 20.26                | 20.36                   | 20.21                 |                     |          |  |
| 100             | QPSK       | 135     | 138       | 20.13                | 20.17                   | 20.12                 | 21.0                | 0.0      |  |
| 100             | QPSK       | 270     | 0         | 20.22                | 20.34                   | 20.18                 | 21.0                | 0.0      |  |
| 100             | 16QAM      | 1       | 1         | 20.14                | 20.30                   | 20.17                 | 21.0                | 0.0      |  |
| 100             | 64QAM      | 1       | 1         | 20.21                | 20.24                   | 20.05                 | 21.0                | 0.0      |  |
| 100             | 256QAM     | 1       | 1         | 20.07                | 20.23                   | 20.08                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 503200               | 518598                  | 529998                |                     |          |  |
| Frequency (MHz) |            |         |           | 2541                 | 2592.99                 | 2644.98               |                     |          |  |
| 90              | QPSK       | 1       | 1         | 19.92                | 20.18                   | 20.23                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 507204               | 518598                  | 529998                |                     |          |  |
| Frequency (MHz) |            |         |           | 2536.02              | 2592.99                 | 2649.99               |                     | 21.0     |  |
| 80              | QPSK       | 1       | 1         | 19.84                | 20.23                   | 20.26                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 506202               | 518598                  | 531000                |                     |          |  |
| Frequency (MHz) |            |         |           | 2531.01              | 2592.99                 | 2655                  | 21.0                | 0.0      |  |
| 70              | QPSK       | 1       | 1         | 19.94                | 19.90                   | 20.01                 |                     | 21.0     |  |
| Channel         |            |         |           | 505200               | 518598                  | 531998                |                     |          |  |
| Frequency (MHz) |            |         |           | 2526                 | 2592.99                 | 2659.98               |                     | 21.0     |  |
| 60              | QPSK       | 1       | 1         | 19.89                | 19.97                   | 20.19                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 504204               | 518598                  | 532996                |                     |          |  |
| Frequency (MHz) |            |         |           | 2521.02              | 2592.99                 | 2684.99               |                     | 21.0     |  |
| 50              | QPSK       | 1       | 1         | 19.94                | 20.15                   | 20.01                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 503202               | 518598                  | 534000                |                     |          |  |
| Frequency (MHz) |            |         |           | 2516.01              | 2592.99                 | 2670                  |                     | 21.0     |  |
| 40              | QPSK       | 1       | 1         | 19.99                | 20.18                   | 20.10                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 502200               | 518598                  | 534996                |                     |          |  |
| Frequency (MHz) |            |         |           | 2511                 | 2592.99                 | 2674.98               |                     | 21.0     |  |
| 30              | QPSK       | 1       | 1         | 19.90                | 20.23                   | 20.26                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 501204               | 518598                  | 535998                |                     |          |  |
| Frequency (MHz) |            |         |           | 2506.02              | 2592.99                 | 2679.99               |                     | 21.0     |  |
| 20              | QPSK       | 1       | 1         | 19.95                | 20.08                   | 20.25                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 500700               | 518598                  | 536996                |                     |          |  |
| Frequency (MHz) |            |         |           | 2503.5               | 2592.99                 | 2682.48               |                     | 21.0     |  |
| 15              | QPSK       | 1       | 1         | 19.85                | 20.07                   | 20.10                 | 21.0                | 0.0      |  |
| Channel         |            |         |           | 500202               | 518598                  | 537000                |                     |          |  |
| Frequency (MHz) |            |         |           | 2501.01              | 2592.99                 | 2685                  |                     | 21.0     |  |
| 10              | QPSK       | 1       | 1         | 19.93                | 19.97                   | 20.17                 | 21.0                | 0.0      |  |

| n41(HPUE)_Ant 4(FCC) |            |         |           |                       |                          |                        |                     |          |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |            |         |           | 506022                | 518598                   | 528000                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2548.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 1         | 23.14                 | 23.36                    | 23.21                  | 24.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 1       | 137       | 23.04                 | 22.87                    | 23.00                  |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 271       | 23.07                 | 23.21                    | 23.14                  |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 0         | 22.89                 | 23.02                    | 22.95                  | 24.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 135     | 69        | 23.10                 | 23.29                    | 23.16                  | 24.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 135     | 138       | 23.06                 | 23.16                    | 23.03                  | 24.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 270     | 0         | 23.00                 | 23.09                    | 23.01                  | 24.0                | 0.0      |  |
| 100                  | QPSK       | 1       | 1         | 23.19                 | 23.40                    | 23.24                  |                     |          |  |
| 100                  | QPSK       | 1       | 137       | 23.08                 | 22.96                    | 23.20                  |                     |          |  |
| 100                  | QPSK       | 1       | 271       | 23.11                 | 23.13                    | 23.16                  | 24.0                | 0.0      |  |
| 100                  | QPSK       | 135     | 0         | 23.00                 | 22.93                    | 23.06                  |                     |          |  |
| 100                  | QPSK       | 135     | 69        | 23.09                 | 23.37                    | 23.21                  |                     |          |  |
| 100                  | QPSK       | 135     | 138       | 23.04                 | 23.06                    | 23.05                  | 24.0                | 0.0      |  |
| 100                  | QPSK       | 270     | 0         | 23.15                 | 23.27                    | 23.19                  |                     |          |  |
| 100                  | 16QAM      | 1       | 1         | 22.82                 | 22.96                    | 22.88                  |                     |          |  |
| 100                  | 64QAM      | 1       | 1         | 21.05                 | 21.21                    | 21.19                  | 22.5                | 1.5      |  |
| 100                  | 256QAM     | 1       | 1         | 19.97                 | 20.24                    | 20.18                  | 21.0                | 3.0      |  |
| Channel              |            |         |           | 506030                | 518598                   | 528996                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2548.01               | 2592.99                  | 2644.66                |                     |          |  |
| 40                   | QPSK       | 1       | 1         | 23.27                 | 23.25                    | 23.15                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 507024                | 518598                   | 529998                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2536.62               | 2592.99                  | 2649.99                |                     |          |  |
| 40                   | QPSK       | 1       | 1         | 23.33                 | 23.36                    | 23.13                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 506032                | 518598                   | 531000                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2531.61               | 2592.99                  | 2650.99                |                     |          |  |
| 70                   | QPSK       | 1       | 1         | 23.09                 | 23.32                    | 23.35                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 506030                | 518598                   | 531996                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |  |
| 60                   | QPSK       | 1       | 1         | 23.30                 | 23.28                    | 23.03                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 504204                | 518598                   | 532998                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2521.62               | 2592.99                  | 2669.99                |                     |          |  |
| 50                   | QPSK       | 1       | 1         | 23.31                 | 23.10                    | 23.04                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 503032                | 518598                   | 534000                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2516.61               | 2592.99                  | 2670                   |                     |          |  |
| 40                   | QPSK       | 1       | 1         | 23.30                 | 23.19                    | 23.17                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 502200                | 518598                   | 534996                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |  |
| 30                   | QPSK       | 1       | 1         | 23.30                 | 23.19                    | 22.88                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 501204                | 518598                   | 535998                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20                   | QPSK       | 1       | 1         | 23.30                 | 23.22                    | 22.92                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 500700                | 518598                   | 536496                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2503.15               | 2592.99                  | 2672.43                |                     |          |  |
| 15                   | QPSK       | 1       | 1         | 23.10                 | 23.24                    | 23.17                  | 24.0                | 0.0      |  |
| Channel              |            |         |           | 500202                | 518598                   | 537000                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |  |
| 10                   | QPSK       | 1       | 1         | 23.29                 | 23.19                    | 23.10                  | 24.0                | 0.0      |  |

Part96\_n48\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 638000                | 641666                   | 645332                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |
| 40              | Pl2 BPSK   | 1       | 1         | 23.14                 | 23.35                    | 23.13                  |                     |          |
| 40              | Pl2 BPSK   | 1       | 53        | 23.10                 | 23.30                    | 23.11                  |                     |          |
| 40              | Pl2 BPSK   | 1       | 104       | 23.07                 | 23.33                    | 23.07                  | 24.0                | 0.0      |
| 40              | Pl2 BPSK   | 50      | 0         | 23.05                 | 23.28                    | 23.04                  |                     |          |
| 40              | Pl2 BPSK   | 50      | 28        | 23.11                 | 23.33                    | 23.10                  |                     |          |
| 40              | Pl2 BPSK   | 50      | 56        | 23.07                 | 23.30                    | 23.05                  |                     |          |
| 40              | Pl2 BPSK   | 100     | 0         | 23.08                 | 23.31                    | 23.02                  | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 23.16                 | 23.38                    | 23.15                  |                     |          |
| 40              | QPSK       | 1       | 53        | 23.08                 | 23.29                    | 23.08                  |                     |          |
| 40              | QPSK       | 1       | 104       | 23.12                 | 23.27                    | 23.10                  |                     |          |
| 40              | QPSK       | 50      | 0         | 23.09                 | 23.23                    | 23.07                  | 24.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 23.13                 | 23.33                    | 23.12                  |                     |          |
| 40              | QPSK       | 50      | 56        | 23.06                 | 23.29                    | 23.11                  |                     |          |
| 40              | QPSK       | 100     | 0         | 23.10                 | 23.32                    | 23.08                  |                     |          |
| 40              | 16QAM      | 1       | 1         | 22.98                 | 23.29                    | 23.00                  | 24.0                | 0.0      |
| 40              | 64QAM      | 1       | 1         | 21.54                 | 21.82                    | 21.45                  | 22.5                | 1.5      |
| 40              | 256QAM     | 1       | 1         | 19.58                 | 19.63                    | 19.53                  | 20.5                | 3.5      |
| Channel         |            |         |           | 637663                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3565.02               | 3624.99                  | 3684.99                | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 23.08                 | 23.27                    | 23.29                  | 24.0                | 0.0      |
| Channel         |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3560.01               | 3624.99                  | 3690                   | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.87                 | 23.15                    | 23.09                  | 24.0                | 0.0      |
| Channel         |            |         |           | 637168                | 641666                   | 646166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3557.52               | 3624.99                  | 3692.49                | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.82                 | 23.08                    | 23.16                  | 24.0                | 0.0      |
| Channel         |            |         |           | 637000                | 641666                   | 646332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3555                  | 3624.99                  | 3694.98                | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.82                 | 23.14                    | 23.15                  | 24.0                | 0.0      |

Part96\_n48\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 638000                | 641666                   | 645332                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3570                  | 3624.99                  | 3679.98                |                     |          |
| 40              | Pl2 BPSK   | 1       | 1         | 22.95                 | 23.07                    | 22.82                  |                     |          |
| 40              | Pl2 BPSK   | 1       | 53        | 22.92                 | 23.02                    | 22.84                  |                     |          |
| 40              | Pl2 BPSK   | 1       | 104       | 22.88                 | 22.98                    | 22.83                  | 24.0                | 0.0      |
| 40              | Pl2 BPSK   | 50      | 0         | 22.86                 | 22.95                    | 22.81                  |                     |          |
| 40              | Pl2 BPSK   | 50      | 28        | 22.93                 | 23.05                    | 22.79                  |                     |          |
| 40              | Pl2 BPSK   | 50      | 56        | 22.91                 | 23.00                    | 22.58                  |                     |          |
| 40              | Pl2 BPSK   | 100     | 0         | 22.90                 | 23.02                    | 22.77                  | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 22.98                 | 23.10                    | 22.84                  |                     |          |
| 40              | QPSK       | 1       | 53        | 22.89                 | 23.04                    | 22.71                  |                     |          |
| 40              | QPSK       | 1       | 104       | 22.90                 | 23.00                    | 22.67                  |                     |          |
| 40              | QPSK       | 50      | 0         | 22.92                 | 22.95                    | 22.73                  | 24.0                | 0.0      |
| 40              | QPSK       | 50      | 28        | 22.96                 | 23.07                    | 22.81                  |                     |          |
| 40              | QPSK       | 50      | 56        | 22.87                 | 23.02                    | 22.66                  |                     |          |
| 40              | QPSK       | 100     | 0         | 22.94                 | 23.05                    | 22.78                  |                     |          |
| 40              | 16QAM      | 1       | 1         | 22.95                 | 22.99                    | 22.75                  | 24.0                | 0.0      |
| 40              | 64QAM      | 1       | 1         | 21.13                 | 21.28                    | 21.02                  | 22.5                | 1.5      |
| 40              | 256QAM     | 1       | 1         | 19.38                 | 19.43                    | 19.33                  | 20.5                | 3.5      |
| Channel         |            |         |           | 637668                | 641666                   | 645666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3565.02               | 3624.99                  | 3684.99                | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 22.94                 | 22.97                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           | 637334                | 641666                   | 646000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3560.01               | 3624.99                  | 3690                   | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.87                 | 22.99                    | 22.89                  | 24.0                | 0.0      |
| Channel         |            |         |           | 637168                | 641666                   | 646166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3557.52               | 3624.99                  | 3692.49                | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.94                 | 22.98                    | 22.93                  | 24.0                | 0.0      |
| Channel         |            |         |           | 637000                | 641666                   | 646332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3555                  | 3624.99                  | 3694.98                | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.91                 | 22.97                    | 22.86                  | 24.0                | 0.0      |

Part27Q\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3495.98               | 3499.98                  | 3504.99                |                     |          |
| 100             | Pl2 BPSK   | 1       | 1         |                       | 23.39                    |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 137       |                       | 23.40                    |                        |                     |          |
| 100             | Pl2 BPSK   | 1       | 271       |                       | 23.42                    |                        | 24.0                | 0.0      |
| 100             | Pl2 BPSK   | 135     | 0         |                       | 23.43                    |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 69        |                       | 23.39                    |                        |                     |          |
| 100             | Pl2 BPSK   | 135     | 138       |                       | 23.42                    |                        |                     |          |
| 100             | Pl2 BPSK   | 270     | 0         |                       | 23.36                    |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 23.45                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 23.40                    |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 23.02                    |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 0         |                       | 23.35                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 23.43                    |                        |                     |          |
| 100             | QPSK       | 135     | 138       |                       | 23.40                    |                        |                     |          |
| 100             | QPSK       | 270     | 0         |                       | 23.43                    |                        | 24.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 23.04                    |                        | 24.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 23.12                    |                        | 24.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 21.82                    |                        | 22.5                | 1.5      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                | 24.0                | 0.0      |
| 90              | QPSK       | 1       | 1         | 23.15                 | 23.38                    | 23.28                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   | 24.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 23.22                 | 23.10                    | 23.31                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 24.0                | 0.0      |
| 70              | QPSK       | 1       | 1         | 22.97                 | 23.34                    | 23.13                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                | 24.0                | 0.0      |
| 60              | QPSK       | 1       | 1         | 23.06                 | 23.39                    | 23.25                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3479.02               | 3499.98                  | 3525                   | 24.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 23.12                 | 23.40                    | 23.00                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 22.95                 | 23.36                    | 23.19                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635596                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.98                | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 23.04                 | 23.16                    | 23.21                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630634                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                | 24.0                | 0.0      |
| 25              | QPSK       | 1       | 1         | 23.17                 | 23.28                    | 23.02                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630368                | 633332                   | 636090                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.98                 | 23.33                    | 23.12                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630090                | 633332                   | 636198                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.93                 | 23.20                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 24.0                | 0.0      |
| 10              | Pl2 BPSK   | 1       | 1         | 23.23                 | 23.19                    | 23.09                  | 24.0                | 0.0      |



| Part27Q_n77(HPUE)_Ant 3 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332                |                          |                        | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 26.47                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       | 26.41                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       | 26.47                 |                          |                        | 26.5                | 0.5      |  |
| 100                     | PI2 BPSK   | 135     | 0         | 25.98                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 89        | 26.45                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 138       | 25.94                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         | 25.93                 |                          |                        | 26.5                | 0.5      |  |
| 100                     | QPSK       | 1       | 1         | 26.54                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 26.33                 |                          |                        |                     | 27.0     |  |
| 100                     | QPSK       | 1       | 271       | 26.51                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 25.44                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 89        | 26.52                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       | 25.97                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 25.46                 |                          |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 25.34                 |                          |                        | 26.0                | 1.0      |  |
| 100                     | 64QAM      | 1       | 1         | 23.89                 |                          |                        | 24.5                | 2.5      |  |
| 100                     | 256QAM     | 1       | 1         | 21.76                 |                          |                        | 22.5                | 4.5      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                      | QPSK       | 1       | 1         | 26.52                 | 26.47                    | 26.40                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 26.30                 | 26.48                    | 26.17                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 26.29                 | 26.31                    | 26.43                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 26.41                 | 26.30                    | 26.26                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 26.24                 | 26.52                    | 26.34                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 26.40                 | 26.20                    | 26.14                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 26.33                 | 26.49                    | 26.13                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630634                | 633332                   | 635932                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 26.48                 | 26.50                    | 26.47                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630596                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 26.38                 | 26.44                    | 26.12                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630590                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 26.42                 | 26.30                    | 26.34                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                      | PI2 BPSK   | 1       | 1         | 26.39                 | 26.50                    | 26.21                  | 27.0                | 0.0      |  |

| Part27O_n77_Ant 3 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 65000                 |                          |                        | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3750 3840 3930        |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 23.32                 | 23.36                    | 23.37                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       | 23.37                 | 23.27                    | 23.30                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 23.26                 | 23.35                    | 23.28                  | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         | 23.33                 | 23.27                    | 23.21                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 89        | 23.25                 | 23.30                    | 23.35                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 138       | 23.27                 | 23.35                    | 23.30                  |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         | 23.32                 | 23.37                    | 23.29                  | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 23.38                 | 23.39                    | 23.37                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 23.37                 | 23.32                    | 23.35                  |                     | 24.0     |  |
| 100               | QPSK       | 1       | 271       | 23.36                 | 23.27                    | 23.31                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 23.30                 | 23.29                    | 23.21                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 23.34                 | 23.34                    | 23.34                  | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 23.33                 | 23.33                    | 23.33                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 23.12                 | 23.33                    | 23.17                  |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 23.31                 | 23.27                    | 23.20                  | 24.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 23.08                 | 23.13                    | 23.08                  | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 21.74                 | 21.72                    | 21.75                  | 22.5                | 1.5      |  |
| Channel           |            |         |           | 649668                | 650000                   | 3934.98                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.86                 | 23.21                    | 23.28                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 649334                | 650000                   | 3939.99                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 23.07                 | 23.22                    | 23.35                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 649000                | 650000                   | 3945.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 23.19                 | 23.15                    | 23.32                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648668                | 650000                   | 3949.98                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 23.10                 | 23.28                    | 23.29                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 3954.99                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 23.04                 | 23.31                    | 23.16                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 3960.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 23.02                 | 23.22                    | 23.30                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 3964.98                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.94                 | 23.29                    | 23.30                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647500                | 650000                   | 3967.50                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3712.5                | 3840                     | 3967.50                |                     |          |  |
| 25                | QPSK       | 1       | 1         | 22.94                 | 23.20                    | 23.27                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 3969.99                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 22.87                 | 23.15                    | 23.29                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647168                | 650000                   | 3972.48                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.85                 | 23.18                    | 23.16                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 3975.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                | PI2 BPSK   | 1       | 1         | 23.13                 | 23.16                    | 23.31                  | 24.0                | 0.0      |  |

| Part27O_n77(HPUE)_Ant 3                                                                                                    |            |         |           |                       |                          |                        |                     |          |  |
|----------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                                                                                                                   | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                                                                                                                    |            |         |           | 65000                 | 65000                    | 65000                  | 27.0                | 0.0      |  |
| Frequency (MHz)                                                                                                            |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100                                                                                                                        | PI2 BPSK   | 1       | 1         | 26.31                 | 26.34                    | 26.33                  |                     |          |  |
| 100                                                                                                                        | PI2 BPSK   | 1       | 137       | 26.29                 | 26.33                    | 26.32                  |                     |          |  |
| 100                                                                                                                        | PI2 BPSK   | 1       | 271       | 26.30                 | 26.27                    | 26.33                  | 26.5                | 0.5      |  |
| 100                                                                                                                        | PI2 BPSK   | 135     | 0         | 25.84                 | 25.86                    | 25.91                  |                     |          |  |
| 100                                                                                                                        | PI2 BPSK   | 135     | 89        | 26.32                 | 26.29                    | 26.31                  |                     |          |  |
| 100                                                                                                                        | PI2 BPSK   | 135     | 138       | 25.89                 | 25.96                    | 25.81                  |                     |          |  |
| 100                                                                                                                        | PI2 BPSK   | 270     | 0         | 25.94                 | 25.99                    | 25.79                  | 26.5                | 0.5      |  |
| 100                                                                                                                        | QPSK       | 1       | 1         | 25.28                 | 25.35                    | 25.30                  |                     |          |  |
| 100                                                                                                                        | QPSK       | 1       | 137       | 26.26                 | 26.30                    | 26.28                  |                     |          |  |
| 100                                                                                                                        | QPSK       | 1       | 271       | 26.26                 | 26.33                    | 26.26                  |                     |          |  |
| 100                                                                                                                        | QPSK       | 135     | 0         | 25.21                 | 25.27                    | 25.36                  | 27.0                | 0.0      |  |
| 100                                                                                                                        | QPSK       | 135     | 89        | 25.25                 | 25.33                    | 25.38                  |                     |          |  |
| 100                                                                                                                        | QPSK       | 135     | 138       | 25.20                 | 25.29                    | 25.43                  |                     |          |  |
| 100                                                                                                                        | QPSK       | 270     | 0         | 25.26                 | 25.34                    | 25.30                  |                     |          |  |
| 100                                                                                                                        | 16QAM      | 1       | 1         | 25.29                 | 25.31                    | 25.39                  | 26.0                | 1.0      |  |
| 100                                                                                                                        | 64QAM      | 1       | 1         | 23.55                 | 23.59                    | 23.59                  |                     |          |  |
| 100                                                                                                                        | 256QAM     | 1       | 1         | 21.98                 | 21.02                    | 21.64                  |                     |          |  |
| 100                                                                                                                        | 256QAM     | 1       | 1         | 21.98                 | 65000                    | 65032                  |                     |          |  |
| Channel <td>3745.02</td> <td>3840</td> <td>3934.98</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>         |            |         |           | 3745.02               | 3840                     | 3934.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 90                                                                                                                         | QPSK       | 1       | 1         | 26.09                 | 26.26                    | 26.23                  | 27.0                | 0.0      |  |
| Channel <td>649334</td> <td>656000</td> <td>662666</td>                                                                    |            |         |           | 649334                | 656000                   | 662666                 |                     |          |  |
| Frequency (MHz) <td>3740.01</td> <td>3840</td> <td>3939.99</td>                                                            |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                                                                                                                         | QPSK       | 1       | 1         | 26.16                 | 26.08                    | 26.03                  |                     |          |  |
| Channel <td>655000</td> <td>656000</td> <td>663000</td> <th rowspan="4">27.0</th> <th colspan="2" rowspan="4">0.0</th>     |            |         |           | 655000                | 656000                   | 663000                 | 27.0                | 0.0      |  |
| Frequency (MHz) <td>3735</td> <td>3840</td> <td>3945</td>                                                                  |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                                                                                                                         | QPSK       | 1       | 1         | 26.16                 | 26.19                    | 25.94                  |                     |          |  |
| Channel <td>646868</td> <td>656000</td> <td>663332</td>                                                                    |            |         |           | 646868                | 656000                   | 663332                 |                     |          |  |
| Frequency (MHz) <td>3730.02</td> <td>3840</td> <td>3949.98</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th> |            |         |           | 3730.02               | 3840                     | 3949.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 60                                                                                                                         | QPSK       | 1       | 1         | 26.16                 | 25.98                    | 26.23                  | 27.0                | 0.0      |  |
| Channel <td>643334</td> <td>656000</td> <td>663666</td>                                                                    |            |         |           | 643334                | 656000                   | 663666                 |                     |          |  |
| Frequency (MHz) <td>3725.01</td> <td>3840</td> <td>3954.99</td>                                                            |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| 50                                                                                                                         | QPSK       | 1       | 1         | 26.31                 | 26.24                    | 25.94                  |                     |          |  |
| Channel <td>648000</td> <td>656000</td> <td>664000</td> <th rowspan="4">27.0</th> <th colspan="2" rowspan="4">0.0</th>     |            |         |           | 648000                | 656000                   | 664000                 | 27.0                | 0.0      |  |
| Frequency (MHz) <td>3720</td> <td>3840</td> <td>3960</td>                                                                  |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                                                                                                                         | QPSK       | 1       | 1         | 26.20                 | 26.30                    | 25.91                  |                     |          |  |
| Channel <td>652668</td> <td>658000</td> <td>664332</td>                                                                    |            |         |           | 652668                | 658000                   | 664332                 |                     |          |  |
| Frequency (MHz) <td>3715.02</td> <td>3840</td> <td>3964.98</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th> |            |         |           | 3715.02               | 3840                     | 3964.98                | Tune-up limit (dBm) | MPR (dB) |  |
| 30                                                                                                                         | QPSK       | 1       | 1         | 26.10                 | 26.16                    | 25.91                  | 27.0                | 0.0      |  |
| Channel <td>647500</td> <td>656000</td> <td>664500</td>                                                                    |            |         |           | 647500                | 656000                   | 664500                 |                     |          |  |
| Frequency (MHz) <td>3712.5</td> <td>3840</td> <td>3967.5</td>                                                              |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |  |
| 25                                                                                                                         | QPSK       | 1       | 1         | 26.31                 | 26.13                    | 26.20                  |                     |          |  |
| Channel <td>647334</td> <td>656000</td> <td>664668</td> <th rowspan="4">27.0</th> <th colspan="2" rowspan="4">0.0</th>     |            |         |           | 647334                | 656000                   | 664668                 | 27.0                | 0.0      |  |
| Frequency (MHz) <td>3710.01</td> <td>3840</td> <td>3969.99</td>                                                            |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                                                                                                                         | QPSK       | 1       | 1         | 26.33                 | 26.33                    | 26.00                  |                     |          |  |
| Channel <td>647168</td> <td>656000</td> <td>664832</td>                                                                    |            |         |           | 647168                | 656000                   | 664832                 |                     |          |  |
| Frequency (MHz) <td>3707.52</td> <td>3840</td> <td>3972.48</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th> |            |         |           | 3707.52               | 3840                     | 3972.48                | Tune-up limit (dBm) | MPR (dB) |  |
| 15                                                                                                                         | QPSK       | 1       | 1         | 26.30                 | 26.30                    | 26.27                  | 27.0                | 0.0      |  |
| Channel <td>647000</td> <td>656000</td> <td>665000</td>                                                                    |            |         |           | 647000                | 656000                   | 665000                 |                     |          |  |
| Frequency (MHz) <td>3705</td> <td>3840</td> <td>3975</td>                                                                  |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                                                                                                                         | PI2 BPSK   | 1       | 1         | 26.17                 | 26.08                    | 26.25                  |                     |          |  |



| Part27Q_n78_Ant 3 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                | 633332                   | 3499.50                |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 23.20                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 23.16                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 23.10                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 23.01                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 23.13                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 22.98                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 23.04                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                       | 23.23                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 23.19                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 23.12                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 22.90                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 23.10                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 22.99                    |                        | 23.5                | 0.5      |  |
| 100               | QPSK       | 270     | 0         |                       | 22.46                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 22.52                    |                        | 23.5                | 0.5      |  |
| 100               | 64QAM      | 1       | 1         |                       | 20.82                    |                        | 22.0                | 2.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 19.24                    |                        | 20.0                | 4.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 22.93                 | 23.15                    | 23.11                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                | QPSK       | 1       | 1         | 22.82                 | 22.92                    | 23.13                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                | QPSK       | 1       | 1         | 22.79                 | 23.19                    | 22.97                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                | QPSK       | 1       | 1         | 22.97                 | 23.09                    | 22.85                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                | QPSK       | 1       | 1         | 22.89                 | 23.16                    | 22.99                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK       | 1       | 1         | 22.88                 | 23.03                    | 23.05                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                | QPSK       | 1       | 1         | 22.87                 | 22.96                    | 22.94                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |  |
| 25                | QPSK       | 1       | 1         | 22.81                 | 22.95                    | 23.01                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630668                | 633332                   | 635900                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                | QPSK       | 1       | 1         | 23.00                 | 23.11                    | 23.10                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                | QPSK       | 1       | 1         | 22.85                 | 23.06                    | 23.15                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                | PI2 BPSK   | 1       | 1         | 22.99                 | 23.14                    | 23.01                  | 24.0                | 0.0      |  |

| Part27O_n78_Ant 3 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 23.36                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 23.23                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 22.92                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 23.22                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 23.27                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 22.81                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 23.18                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                       | 23.38                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 23.32                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 23.11                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 22.86                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 23.34                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 22.41                    |                        | 23.5                | 0.5      |  |
| 100               | QPSK       | 270     | 0         |                       | 22.58                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 22.81                    |                        | 23.5                | 0.5      |  |
| 100               | 64QAM      | 1       | 1         |                       | 20.98                    |                        | 22.0                | 2.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 19.25                    |                        | 20.0                | 4.0      |  |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 23.12                 | 23.33                    | 23.34                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.84                 | 23.22                    | 23.13                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.95                 | 23.10                    | 23.11                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 23.01                 | 23.32                    | 23.14                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 22.96                 | 23.05                    | 23.20                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 23.00                 | 23.25                    | 23.36                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 23.03                 | 23.20                    | 23.32                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3712.5                | 3750                     | 3787.5                 |                     |          |  |
| 25                | QPSK       | 1       | 1         | 23.05                 | 23.12                    | 23.16                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 23.02                 | 23.18                    | 23.36                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.90                 | 23.11                    | 23.28                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                | PI2 BPSK   | 1       | 1         | 22.85                 | 23.30                    | 23.09                  | 24.0                | 0.0      |  |

| Part27Q_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         |                       | 22.98                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       |                       | 23.01                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       |                       | 22.92                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         |                       | 23.02                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        |                       | 23.06                    |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       |                       | 22.91                    |                        |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         |                       | 23.04                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                       | 23.08                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 22.88                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 22.83                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 23.02                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 23.05                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 138       |                       | 22.87                    |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                       | 23.02                    |                        |                     |          |  |
| 100               | 16QAM      | 1       | 1         |                       | 23.02                    |                        | 24.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 22.97                    |                        | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 21.06                    |                        | 22.5                | 1.5      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 90                | QPSK       | 1       | 1         | 22.81                 | 22.89                    | 22.76                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 80                | QPSK       | 1       | 1         | 23.01                 | 22.92                    | 22.74                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 70                | QPSK       | 1       | 1         | 23.01                 | 22.98                    | 22.81                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 60                | QPSK       | 1       | 1         | 23.00                 | 22.96                    | 22.79                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 50                | QPSK       | 1       | 1         | 23.01                 | 22.72                    | 22.83                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 40                | QPSK       | 1       | 1         | 23.01                 | 22.77                    | 22.89                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| 30                | QPSK       | 1       | 1         | 22.82                 | 22.76                    | 22.82                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630634                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |  |
| 25                | QPSK       | 1       | 1         | 23.02                 | 22.78                    | 22.96                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630300                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| 20                | QPSK       | 1       | 1         | 22.88                 | 22.74                    | 22.76                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 630000                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| 15                | QPSK       | 1       | 1         | 23.07                 | 22.85                    | 22.79                  | 24.0                | 0.0      |  |
| Channel           |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 629634                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| 10                | PI2 BPSK   | 1       | 1         | 22.80                 | 22.75                    | 22.93                  | 24.0                | 0.0      |  |



| Part27Q_n77(HPUE)_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332                |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                     | PV2 BPSK   | 1       | 1         |                       | 25.10                    |                        | 27.0                | 0.0      |  |
| 100                     | PV2 BPSK   | 1       | 137       |                       | 25.27                    |                        |                     |          |  |
| 100                     | PV2 BPSK   | 1       | 271       |                       | 25.20                    |                        |                     |          |  |
| 100                     | PV2 BPSK   | 135     | 0         |                       | 24.74                    |                        | 26.5                | 0.5      |  |
| 100                     | PV2 BPSK   | 135     | 69        |                       | 25.16                    |                        | 27.9                | 0.0      |  |
| 100                     | PV2 BPSK   | 135     | 138       |                       | 24.82                    |                        | 26.5                | 0.5      |  |
| 100                     | PV2 BPSK   | 270     | 0         |                       | 25.15                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 1         |                       | 25.64                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 25.47                    |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 25.51                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 24.72                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        |                       | 25.15                    |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                       | 24.79                    |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         |                       | 24.91                    |                        | 26.0                | 1.0      |  |
| 100                     | 16QAM      | 1       | 1         |                       | 24.72                    |                        | 26.0                | 1.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 23.35                    |                        | 24.5                | 2.5      |  |
| 100                     | 256QAM     | 1       | 1         |                       | 21.61                    |                        | 22.5                | 4.5      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 25.48                 | 25.62                    | 25.59                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 25.29                 | 25.40                    | 25.48                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632234                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 25.50                 | 25.62                    | 25.44                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 25.32                 | 25.50                    | 25.48                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 25.51                 | 25.37                    | 25.61                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 25.42                 | 25.58                    | 25.44                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 25.33                 | 25.60                    | 25.34                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 25.49                 | 25.34                    | 25.60                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 25.53                 | 25.42                    | 25.51                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 25.44                 | 25.44                    | 25.57                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                      | PV2 BPSK   | 1       | 1         | 25.40                 | 25.37                    | 25.50                  | 27.0                | 0.0      |  |

| Part27O_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |          |
| Channel           |            |         |           | 650000                | 650000                   | 650000                 |                     |          |  |          |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |          |
| 100               | PV2 BPSK   | 1       | 1         | 22.62                 | 22.69                    | 22.06                  | 24.0                | 0.0      |  |          |
| 100               | PV2 BPSK   | 1       | 137       | 22.84                 | 22.85                    | 22.80                  |                     |          |  |          |
| 100               | PV2 BPSK   | 1       | 271       | 22.88                 | 22.87                    | 22.89                  |                     |          |  |          |
| 100               | PV2 BPSK   | 135     | 0         | 22.82                 | 22.81                    | 22.84                  | 24.0                | 0.0      |  |          |
| 100               | PV2 BPSK   | 135     | 69        | 22.95                 | 22.94                    | 22.92                  | 24.0                | 0.0      |  |          |
| 100               | PV2 BPSK   | 135     | 138       | 22.88                 | 22.86                    | 22.81                  | 24.0                | 0.0      |  |          |
| 100               | PV2 BPSK   | 270     | 0         | 22.92                 | 22.94                    | 22.91                  |                     |          |  |          |
| 100               | QPSK       | 1       | 1         | 23.02                 | 23.13                    | 23.11                  |                     |          |  |          |
| 100               | QPSK       | 1       | 137       | 22.88                 | 22.89                    | 22.77                  | 24.0                | 0.0      |  |          |
| 100               | QPSK       | 1       | 271       | 23.00                 | 23.10                    | 23.06                  |                     |          |  |          |
| 100               | QPSK       | 135     | 0         | 22.70                 | 22.61                    | 22.85                  |                     |          |  |          |
| 100               | QPSK       | 135     | 69        | 23.00                 | 23.10                    | 23.08                  | 24.0                | 0.0      |  |          |
| 100               | QPSK       | 135     | 138       | 22.84                 | 22.87                    | 22.89                  |                     |          |  |          |
| 100               | QPSK       | 270     | 0         | 22.97                 | 23.08                    | 23.03                  | 24.0                | 0.0      |  |          |
| 100               | 16QAM      | 1       | 1         | 22.68                 | 22.74                    | 22.63                  | 24.0                | 0.0      |  |          |
| 100               | 64QAM      | 1       | 1         | 22.57                 | 22.53                    | 22.47                  | 24.0                | 0.0      |  |          |
| 100               | 256QAM     | 1       | 1         | 21.35                 | 21.36                    | 21.26                  | 22.5                | 1.5      |  |          |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |          |
| 90                | QPSK       | 1       | 1         | 22.67                 | 22.89                    | 22.81                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |          |
| 80                | QPSK       | 1       | 1         | 22.73                 | 22.90                    | 22.62                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 649000                | 650000                   | 650300                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |          |
| 70                | QPSK       | 1       | 1         | 22.68                 | 22.69                    | 22.66                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 648668                | 650000                   | 650332                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  |          |
| 60                | QPSK       | 1       | 1         | 22.53                 | 22.95                    | 22.69                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 648334                | 650000                   | 650366                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |          |
| 50                | QPSK       | 1       | 1         | 22.65                 | 22.93                    | 22.66                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 648000                | 650000                   | 650400                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |          |
| 40                | QPSK       | 1       | 1         | 22.49                 | 22.79                    | 22.75                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 647668                | 650000                   | 650392                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |          |
| 30                | QPSK       | 1       | 1         | 22.56                 | 22.84                    | 22.56                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 647500                | 650000                   | 650450                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |  |          |
| 25                | QPSK       | 1       | 1         | 22.53                 | 22.80                    | 22.84                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 647334                | 650000                   | 650499                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |          |
| 20                | QPSK       | 1       | 1         | 22.53                 | 22.91                    | 22.64                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 647168                | 650000                   | 650483                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |          |
| 15                | QPSK       | 1       | 1         | 22.71                 | 22.61                    | 22.81                  | 24.0                | 0.0      |  |          |
| Channel           |            |         |           | 647000                | 650000                   | 650500                 | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |          |
| 10                | PV2 BPSK   | 1       | 1         | 22.41                 | 22.68                    | 22.72                  | 24.0                | 0.0      |  |          |

| Part27O_n77(HPUE)_Ant 7 |            |         |           |                                                                                             |                          |                                                                    |                     |          |  |  |
|-------------------------|------------|---------|-----------|---------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------|---------------------|----------|--|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq.                                                                       | Power Middle Ch. / Freq. | Power High Ch. / Freq.                                             | Tune-up limit (dBm) | MPR (dB) |  |  |
| Channel                 |            |         |           | 650000                                                                                      | 650000                   | 650000                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3750                                                                                        | 3840                     | 3930                                                               |                     |          |  |  |
| 100                     | Pi2 BPSK   | 1       | 1         | 25.45                                                                                       | 25.52                    | 25.40                                                              | 27.0                | 0.0      |  |  |
| 100                     | Pi2 BPSK   | 1       | 137       | 25.43                                                                                       | 25.50                    | 25.37                                                              |                     |          |  |  |
| 100                     | Pi2 BPSK   | 1       | 271       | 25.40                                                                                       | 25.50                    | 25.33                                                              |                     |          |  |  |
| 100                     | Pi2 BPSK   | 135     | 0         | 25.06                                                                                       | 25.11                    | 24.99                                                              | 26.5                | 0.5      |  |  |
| 100                     | Pi2 BPSK   | 135     | 69        | 25.42                                                                                       | 25.50                    | 25.35                                                              |                     |          |  |  |
| 100                     | Pi2 BPSK   | 135     | 138       | 25.49                                                                                       | 25.58                    | 25.48                                                              |                     |          |  |  |
| 100                     | Pi2 BPSK   | 270     | 0         | 25.20                                                                                       | 25.29                    | 25.23                                                              | 26.5                | 0.5      |  |  |
| 100                     | QPSK       | 1       | 1         | 25.46                                                                                       | 25.54                    | 25.42                                                              |                     |          |  |  |
| 100                     | QPSK       | 1       | 137       | 25.41                                                                                       | 25.47                    | 25.35                                                              |                     |          |  |  |
| 100                     | QPSK       | 1       | 271       | 25.24                                                                                       | 25.27                    | 25.31                                                              | 27.0                | 0.0      |  |  |
| 100                     | QPSK       | 135     | 0         | 24.83                                                                                       | 24.85                    | 24.87                                                              |                     |          |  |  |
| 100                     | QPSK       | 135     | 69        | 25.43                                                                                       | 25.51                    | 25.40                                                              |                     |          |  |  |
| 100                     | QPSK       | 135     | 138       | 24.93                                                                                       | 24.99                    | 24.79                                                              | 27.0                | 0.0      |  |  |
| 100                     | QPSK       | 270     | 0         | 24.75                                                                                       | 24.81                    | 24.72                                                              |                     |          |  |  |
| 100                     | 16QAM      | 1       | 1         | 24.76                                                                                       | 24.85                    | 24.88                                                              |                     |          |  |  |
| 100                     | 64QAM      | 1       | 1         | 22.91                                                                                       | 23.01                    | 22.92                                                              | 26.0                | 1.0      |  |  |
| 100                     | 256QAM     | 1       | 1         | 21.26                                                                                       | 21.33                    | 21.32                                                              |                     |          |  |  |
| 100                     | 256QAM     | 1       | 1         | 21.26                                                                                       | 21.33                    | 21.32                                                              |                     |          |  |  |
| Channel                 |            |         |           | 650000                                                                                      | 650000                   | 650000                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3745.02                                                                                     | 3840                     | 3934.98                                                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| 90                      | QPSK       | 1       | 1         | 25.35                                                                                       | 25.41                    | 25.50                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 649334                                                                                      | 656000                   | 662666                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3740.01                                                                                     | 3840                     | 3939.99                                                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| 80                      | QPSK       | 1       | 1         | 25.37                                                                                       | 25.38                    | 25.57                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 648000                                                                                      | 656000                   | 662000                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3735                                                                                        | 3840                     | 3945 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>    | Tune-up limit (dBm) | MPR (dB) |  |  |
| 70                      | QPSK       | 1       | 1         | 25.36                                                                                       | 25.23                    | 25.53                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 646668                                                                                      | 656000                   | 663332                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3730.02                                                                                     | 3840                     | 3940.98                                                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| 60                      | QPSK       | 1       | 1         | 25.38                                                                                       | 25.48                    | 25.57                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 645334                                                                                      | 656000                   | 663666                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3725.01                                                                                     | 3840 <td>3954.99</td>    | 3954.99                                                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| 50                      | QPSK       | 1       | 1         | 25.33                                                                                       | 25.29                    | 25.34                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 644000                                                                                      | 656000                   | 664000                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3720                                                                                        | 3840                     | 3960 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th>    | Tune-up limit (dBm) | MPR (dB) |  |  |
| 40                      | QPSK       | 1       | 1         | 25.26                                                                                       | 25.47                    | 25.29                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 642668                                                                                      | 656000                   | 664332                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3715.02                                                                                     | 3840                     | 3964.98 <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th> | Tune-up limit (dBm) | MPR (dB) |  |  |
| 30                      | QPSK       | 1       | 1         | 25.22                                                                                       | 25.31                    | 25.36                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 641500                                                                                      | 656000                   | 664500                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3712.5                                                                                      | 3840                     | 3970.5                                                             | Tune-up limit (dBm) | MPR (dB) |  |  |
| 25                      | QPSK       | 1       | 1         | 25.30                                                                                       | 25.42                    | 25.67                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 641334                                                                                      | 656000                   | 664668                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3710.01                                                                                     | 3840                     | 3969.99                                                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| 20                      | QPSK       | 1       | 1         | 25.43                                                                                       | 25.25                    | 25.45                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 641168                                                                                      | 656000                   | 664832                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3707.52                                                                                     | 3840                     | 3972.48                                                            | Tune-up limit (dBm) | MPR (dB) |  |  |
| 15                      | QPSK       | 1       | 1         | 25.37                                                                                       | 25.41                    | 25.29                                                              | 27.0                | 0.0      |  |  |
| Channel                 |            |         |           | 641000                                                                                      | 656000                   | 665000                                                             |                     |          |  |  |
| Frequency (MHz)         |            |         |           | 3705 <td>3840</td> <td>3975</td> <th>Tune-up limit (dBm)</th> <th colspan="2">MPR (dB)</th> | 3840                     | 3975                                                               | Tune-up limit (dBm) | MPR (dB) |  |  |
| 10                      | Pi2 BPSK   | 1       | 1         | 25.19                                                                                       | 25.29                    | 25.39                                                              | 27.0                | 0.0      |  |  |



| Part27Q_n78_Ant 7 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332               |                         | 3499.98               |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332               |                         | 3499.98               |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 22.97                |                         |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 22.91                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 22.59                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 22.39                |                         |                       | 23.5                | 0.5      |  |
| 100               | PI2 BPSK   | 135     | 69        | 22.79                |                         |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 22.27                |                         |                       | 23.5                | 0.5      |  |
| 100               | PI2 BPSK   | 270     | 0         | 22.67                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 1         | 22.99                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       | 22.79                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 22.55                |                         |                       |                     |          |  |
| 100               | QPSK       | 135     | 0         | 22.84                |                         |                       |                     |          |  |
| 100               | QPSK       | 135     | 69        | 22.75                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 21.70                |                         |                       |                     |          |  |
| 100               | QPSK       | 270     | 0         | 22.19                |                         |                       | 23.0                | 1.0      |  |
| 100               | 16QAM      | 1       | 1         | 21.95                |                         |                       | 23.0                | 1.0      |  |
| 100               | 64QAM      | 1       | 1         | 20.49                |                         |                       | 21.5                | 2.5      |  |
| 100               | 256QAM     | 1       | 1         | 18.22                |                         |                       | 19.5                | 4.5      |  |
| Channel           |            |         |           | 633000               | 633668                  |                       | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                 | 3500.01                 | 3505.02               |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.61                | 22.78                   | 22.50                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632668               | 633334                  | 634000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02              | 3500.01                 | 3510                  |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.42                | 22.63                   | 22.36                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632234               | 633334                  | 634334                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01              | 3500.01                 | 3515.01               |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.37                | 22.81                   | 22.56                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632000               | 633334                  | 634668                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                 | 3500.01                 | 3520.02               |                     |          |  |
| 60                | QPSK       | 1       | 1         | 22.54                | 22.54                   | 22.49                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631500               | 633334                  | 635000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02              | 3500.01                 | 3525                  |                     |          |  |
| 50                | QPSK       | 1       | 1         | 22.41                | 22.71                   | 22.45                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631334               | 633332                  | 635332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01              | 3499.98                 | 3529.98               |                     |          |  |
| 40                | QPSK       | 1       | 1         | 22.36                | 22.84                   | 22.37                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631000               | 633332                  | 635668                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                 | 3499.98                 | 3534.98               |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.55                | 22.54                   | 22.39                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630834               | 633332                  | 635832                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3462.51              | 3499.98                 | 3537.48               |                     |          |  |
| 25                | QPSK       | 1       | 1         | 22.62                | 22.82                   | 22.23                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630668               | 633332                  | 636000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02              | 3499.98                 | 3540                  |                     |          |  |
| 20                | QPSK       | 1       | 1         | 22.59                | 22.74                   | 22.37                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630500               | 633332                  | 636168                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5               | 3499.98                 | 3542.49               |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.50                | 22.58                   | 22.40                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630334               | 633332                  | 636332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01              | 3499.98                 | 3544.98               |                     |          |  |
| 10                | PI2 BPSK   | 1       | 1         | 22.58                | 22.65                   | 22.38                 | 24.0                | 0.0      |  |

| Part27O_n78_Ant 7 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 63750                |                         | 650000                |                     |          |  |
| Frequency (MHz)   |            |         |           | 63750                |                         | 650000                |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 22.87                |                         |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 22.82                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 22.62                |                         |                       |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 22.36                |                         |                       | 23.5                | 0.5      |  |
| 100               | PI2 BPSK   | 135     | 69        | 22.76                |                         |                       | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 22.41                |                         |                       | 23.5                | 0.5      |  |
| 100               | PI2 BPSK   | 270     | 0         | 22.60                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 1         | 22.93                |                         |                       |                     |          |  |
| 100               | QPSK       | 1       | 137       | 22.91                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 22.83                |                         |                       |                     |          |  |
| 100               | QPSK       | 135     | 0         | 22.27                |                         |                       |                     |          |  |
| 100               | QPSK       | 135     | 69        | 22.90                |                         |                       | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 22.29                |                         |                       |                     |          |  |
| 100               | QPSK       | 270     | 0         | 22.87                |                         |                       | 23.0                | 1.0      |  |
| 100               | 16QAM      | 1       | 1         | 21.87                |                         |                       | 23.0                | 1.0      |  |
| 100               | 64QAM      | 1       | 1         | 20.22                |                         |                       | 21.5                | 2.5      |  |
| 100               | 256QAM     | 1       | 1         | 19.32                |                         |                       | 19.5                | 4.5      |  |
| Channel           |            |         |           | 646668               | 650000                  | 653332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02              | 3750                    | 3754.98               |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.50                | 22.61                   | 22.79                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646334               | 650000                  | 650666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01              | 3750                    | 3759.99               |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.59                | 22.47                   | 22.65                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646000               | 650000                  | 651000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.46                | 22.44                   | 22.69                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646668               | 650000                  | 651332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02              | 3750                    | 3769.98               |                     |          |  |
| 60                | QPSK       | 1       | 1         | 22.49                | 22.69                   | 22.65                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646334               | 650000                  | 651666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01              | 3750                    | 3774.99               |                     |          |  |
| 50                | QPSK       | 1       | 1         | 22.67                | 22.34                   | 22.59                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 646000               | 650000                  | 652000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                 | 3750                    | 3780                  |                     |          |  |
| 40                | QPSK       | 1       | 1         | 22.45                | 22.56                   | 22.53                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647668               | 650000                  | 652332                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02              | 3750                    | 3794.98               |                     |          |  |
| 30                | QPSK       | 1       | 1         | 22.62                | 22.48                   | 22.61                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647500               | 650000                  | 652500                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3712.5               | 3750                    | 3787.5                |                     |          |  |
| 25                | QPSK       | 1       | 1         | 22.50                | 22.59                   | 22.68                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647334               | 650000                  | 652666                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01              | 3750                    | 3789.99               |                     |          |  |
| 20                | QPSK       | 1       | 1         | 22.36                | 22.63                   | 22.59                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647168               | 650000                  | 652832                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52              | 3750                    | 3792.48               |                     |          |  |
| 15                | QPSK       | 1       | 1         | 22.42                | 22.51                   | 22.78                 | 24.0                | 0.0      |  |
| Channel           |            |         |           | 647000               | 650000                  | 653000                | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                 | 3750                    | 3795                  |                     |          |  |
| 10                | PI2 BPSK   | 1       | 1         | 22.68                | 22.41                   | 22.59                 | 24.0                | 0.0      |  |

| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| Frequency (MHz)   |            |         |           | 633332                |                          | 3499.98                |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 23.47                 |                          |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 137       | 23.38                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 23.36                 |                          |                        |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 23.45                 |                          |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 23.34                 |                          |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 23.37                 |                          |                        | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 23.36                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         | 23.48                 |                          |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       | 23.32                 |                          |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 23.35                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         | 23.41                 |                          |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        | 23.46                 |                          |                        | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 23.26                 |                          |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         | 23.44                 |                          |                        | 24.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 23.46                 |                          |                        | 24.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 23.21                 |                          |                        | 24.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 21.96                 |                          |                        | 22.5                | 1.5      |  |
| Channel           |            |         |           | 633000                |                          | 633332                 |                     | 633666   |  |
| Frequency (MHz)   |            |         |           | 3495                  |                          | 3499.98                |                     | 3504.99  |  |
| 90                | QPSK       | 1       | 1         | 23.10                 | 23.29                    | 23.34                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632668                |                          | 633332                 |                     | 634000   |  |
| Frequency (MHz)   |            |         |           | 3486.02               |                          | 3499.98                |                     | 3510     |  |
| 80                | QPSK       | 1       | 1         | 22.07                 | 23.06                    | 23.38                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632334                |                          | 633332                 |                     | 634332   |  |
| Frequency (MHz)   |            |         |           | 3486.01               |                          | 3499.98                |                     | 3514.98  |  |
| 70                | QPSK       | 1       | 1         | 23.10                 | 23.22                    | 23.38                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 632000                |                          | 633332                 |                     | 634666   |  |
| Frequency (MHz)   |            |         |           | 3480.00               |                          | 3499.98                |                     | 3516.99  |  |
| 60                | QPSK       | 1       | 1         | 22.98                 | 23.14                    | 23.13                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631668                |                          | 633332                 |                     | 635000   |  |
| Frequency (MHz)   |            |         |           | 3475.02               |                          | 3499.98                |                     | 3525     |  |
| 50                | QPSK       | 1       | 1         | 22.85                 | 23.28                    | 23.20                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631334                |                          | 633332                 |                     | 635332   |  |
| Frequency (MHz)   |            |         |           | 3470.01               |                          | 3499.98                |                     | 3528.98  |  |
| 40                | QPSK       | 1       | 1         | 22.59                 | 23.33                    | 23.41                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 631000                |                          | 633332                 |                     | 635666   |  |
| Frequency (MHz)   |            |         |           | 3465                  |                          | 3499.98                |                     | 3534.99  |  |
| 30                | QPSK       | 1       | 1         | 23.14                 | 23.37                    | 23.35                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630634                |                          | 633332                 |                     | 635832   |  |
| Frequency (MHz)   |            |         |           | 3462.51               |                          | 3499.98                |                     | 3537.42  |  |
| 25                | QPSK       | 1       | 1         | 22.83                 | 23.22                    | 23.20                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630668                |                          | 633332                 |                     | 635866   |  |
| Frequency (MHz)   |            |         |           | 3460.02               |                          | 3499.98                |                     | 3540     |  |
| 20                | QPSK       | 1       | 1         | 23.08                 | 23.34                    | 23.18                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630500                |                          | 633332                 |                     | 636166   |  |
| Frequency (MHz)   |            |         |           | 3457.5                |                          | 3499.98                |                     | 3542.48  |  |
| 15                | QPSK       | 1       | 1         | 22.68                 | 23.02                    | 23.13                  | 24.0                | 0.0      |  |
| Channel           |            |         |           | 630334                |                          | 633332                 |                     | 636332   |  |
| Frequency (MHz)   |            |         |           | 3456.01               |                          | 3499.98                |                     | 3544.98  |  |
| 10                | PI2 BPSK   | 1       | 1         | 23.17                 | 23.07                    | 23.36                  | 24.0                | 0.0      |  |



| Part27Q_n77(HPUE)_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                 |            |         |           | 63332                 | 3499.98                  |                        |                     | 27.0     | 0.0 |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |     |
| 100                     | Pi2 BPSK   | 1       | 1         |                       | 26.46                    |                        |                     |          |     |
| 100                     | Pi2 BPSK   | 1       | 137       |                       | 26.45                    |                        |                     |          |     |
| 100                     | Pi2 BPSK   | 1       | 271       |                       | 26.41                    |                        |                     |          |     |
| 100                     | Pi2 BPSK   | 135     | 0         |                       | 26.07                    |                        | 26.5                | 0.5      |     |
| 100                     | Pi2 BPSK   | 135     | 69        |                       | 26.43                    |                        | 27.9                | 0.0      |     |
| 100                     | Pi2 BPSK   | 135     | 138       |                       | 25.91                    |                        | 26.5                | 0.5      |     |
| 100                     | Pi2 BPSK   | 270     | 0         |                       | 25.95                    |                        |                     |          |     |
| 100                     | QPSK       | 1       | 1         |                       | 26.47                    |                        |                     |          |     |
| 100                     | QPSK       | 1       | 137       |                       | 26.42                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 1       | 271       |                       | 26.34                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 0         |                       | 25.21                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 69        |                       | 26.44                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 135     | 138       |                       | 25.37                    |                        |                     |          |     |
| 100                     | QPSK       | 270     | 0         |                       | 25.42                    |                        | 26.0                | 1.0      |     |
| 100                     | 16QAM      | 1       | 1         |                       | 25.51                    |                        | 26.0                | 1.0      |     |
| 100                     | 64QAM      | 1       | 1         |                       | 23.69                    |                        | 24.5                | 2.5      |     |
| 100                     | 256QAM     | 1       | 1         |                       | 21.83                    |                        | 22.5                | 4.5      |     |
| Channel                 |            |         |           | 63300                 | 63332                    | 63366                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |     |
| 90                      | QPSK       | 1       | 1         | 1                     | 25.94                    | 26.22                  | 26.28               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63268                 | 63332                    | 63400                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |     |
| 80                      | QPSK       | 1       | 1         | 1                     | 25.72                    | 25.85                  | 26.08               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63234                 | 63332                    | 63432                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3485.51               | 3499.98                  | 3514.98                |                     |          |     |
| 70                      | QPSK       | 1       | 1         | 1                     | 25.91                    | 26.29                  | 26.22               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63200                 | 63332                    | 63466                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |     |
| 60                      | QPSK       | 1       | 1         | 1                     | 25.79                    | 26.22                  | 26.24               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63166                 | 63332                    | 63500                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |     |
| 50                      | QPSK       | 1       | 1         | 1                     | 25.76                    | 26.17                  | 26.23               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63134                 | 63332                    | 63532                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40                      | QPSK       | 1       | 1         | 1                     | 25.84                    | 26.26                  | 26.15               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63100                 | 63332                    | 63566                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |          |     |
| 30                      | QPSK       | 1       | 1         | 1                     | 26.02                    | 26.10                  | 26.22               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63068                 | 63332                    | 63582                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |     |
| 25                      | QPSK       | 1       | 1         | 1                     | 25.82                    | 26.05                  | 26.18               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63059                 | 63332                    | 63609                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20                      | QPSK       | 1       | 1         | 1                     | 25.86                    | 26.05                  | 26.20               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63050                 | 63332                    | 63616                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |     |
| 15                      | QPSK       | 1       | 1         | 1                     | 25.85                    | 26.02                  | 26.15               | 27.0     | 0.0 |
| Channel                 |            |         |           | 63034                 | 63332                    | 63632                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |     |
| 10                      | Pi2 BPSK   | 1       | 1         | 1                     | 25.93                    | 25.94                  | 26.35               | 27.0     | 0.0 |

| Part27O_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 66000                 | 66000                    | 66200                  |                     | 24.0     | 0.0 |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |     |
| 100               | Pi2 BPSK   | 1       | 1         |                       | 23.05                    | 23.11                  | 22.98               |          |     |
| 100               | Pi2 BPSK   | 1       | 137       |                       | 22.99                    | 22.99                  | 22.92               |          |     |
| 100               | Pi2 BPSK   | 1       | 271       |                       | 23.03                    | 23.04                  | 22.94               |          |     |
| 100               | Pi2 BPSK   | 135     | 0         |                       | 23.03                    | 23.00                  | 22.93               | 24.0     | 0.0 |
| 100               | Pi2 BPSK   | 135     | 69        |                       | 23.02                    | 23.02                  | 22.96               | 24.0     | 0.0 |
| 100               | Pi2 BPSK   | 135     | 138       |                       | 22.90                    | 22.95                  | 22.86               |          |     |
| 100               | Pi2 BPSK   | 270     | 0         |                       | 23.02                    | 23.00                  | 22.92               | 24.0     | 0.0 |
| 100               | QPSK       | 1       | 1         |                       | 23.06                    | 23.13                  | 22.99               |          |     |
| 100               | QPSK       | 1       | 137       |                       | 22.83                    | 22.89                  | 22.87               | 24.0     | 0.0 |
| 100               | QPSK       | 1       | 271       |                       | 23.04                    | 23.04                  | 22.97               |          |     |
| 100               | QPSK       | 135     | 0         |                       | 22.83                    | 22.87                  | 22.77               |          |     |
| 100               | QPSK       | 135     | 69        |                       | 23.03                    | 23.10                  | 22.95               | 24.0     | 0.0 |
| 100               | QPSK       | 135     | 138       |                       | 22.91                    | 22.98                  | 22.87               |          |     |
| 100               | QPSK       | 270     | 0         |                       | 22.93                    | 23.08                  | 22.91               | 24.0     | 0.0 |
| 100               | 16QAM      | 1       | 1         | 1                     | 22.55                    | 22.64                  | 22.62               | 24.0     | 0.0 |
| 100               | 64QAM      | 1       | 1         | 1                     | 22.81                    | 22.91                  | 22.81               | 24.0     | 0.0 |
| 100               | 256QAM     | 1       | 1         | 1                     | 21.54                    | 21.52                  | 21.50               | 22.5     | 1.5 |
| Channel           |            |         |           | 64668                 | 65000                    | 65332                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |     |
| 90                | QPSK       | 1       | 1         | 1                     | 22.97                    | 23.11                  | 22.85               | 24.0     | 0.0 |
| Channel           |            |         |           | 64934                 | 65000                    | 65266                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |     |
| 80                | QPSK       | 1       | 1         | 1                     | 22.96                    | 23.01                  | 22.97               | 24.0     | 0.0 |
| Channel           |            |         |           | 64900                 | 65000                    | 65300                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |     |
| 70                | QPSK       | 1       | 1         | 1                     | 22.93                    | 23.10                  | 22.90               | 24.0     | 0.0 |
| Channel           |            |         |           | 64868                 | 65000                    | 65332                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |     |
| 60                | QPSK       | 1       | 1         | 1                     | 23.01                    | 23.09                  | 23.00               | 24.0     | 0.0 |
| Channel           |            |         |           | 64834                 | 65000                    | 65366                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |     |
| 50                | QPSK       | 1       | 1         | 1                     | 23.01                    | 23.03                  | 22.89               | 24.0     | 0.0 |
| Channel           |            |         |           | 64800                 | 65000                    | 65400                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |     |
| 40                | QPSK       | 1       | 1         | 1                     | 23.09                    | 23.04                  | 23.01               | 24.0     | 0.0 |
| Channel           |            |         |           | 64768                 | 65000                    | 65432                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |     |
| 30                | QPSK       | 1       | 1         | 1                     | 23.04                    | 23.09                  | 23.01               | 24.0     | 0.0 |
| Channel           |            |         |           | 64750                 | 65000                    | 65450                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |     |
| 25                | QPSK       | 1       | 1         | 1                     | 23.00                    | 23.06                  | 22.94               | 24.0     | 0.0 |
| Channel           |            |         |           | 64734                 | 65000                    | 65466                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |     |
| 20                | QPSK       | 1       | 1         | 1                     | 23.05                    | 23.05                  | 22.88               | 24.0     | 0.0 |
| Channel           |            |         |           | 64716                 | 65000                    | 65482                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |     |
| 15                | QPSK       | 1       | 1         | 1                     | 23.09                    | 23.02                  | 22.93               | 24.0     | 0.0 |
| Channel           |            |         |           | 64700                 | 65000                    | 65500                  | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |     |
| 10                | Pi2 BPSK   | 1       | 1         | 1                     | 23.06                    | 23.12                  | 22.91               | 24.0     | 0.0 |

| Part27O_n77(HPUE)_Ant 8 |            |         |           |                      |                         |                       |                     |          |  |
|-------------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch / Freq. | Power Middle Ch / Freq. | Power High Ch / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 65000                | 65000                   | 65200                 |                     |          |  |
| Frequency (MHz)         |            |         |           | 3750                 | 3840                    | 3930                  |                     |          |  |
| 100                     | Pi2 BPSK   | 1       | 1         | 26.00                | 26.05                   | 25.94                 |                     |          |  |
| 100                     | Pi2 BPSK   | 1       | 137       | 25.98                | 26.03                   | 25.91                 | 27.0                | 0.0      |  |
| 100                     | Pi2 BPSK   | 1       | 271       | 25.96                | 25.97                   | 25.92                 |                     |          |  |
| 100                     | Pi2 BPSK   | 135     | 0         | 25.96                | 25.46                   | 25.35                 | 26.5                | 0.5      |  |
| 100                     | Pi2 BPSK   | 135     | 69        | 26.92                | 26.91                   | 25.89                 | 27.0                | 0.0      |  |
| 100                     | Pi2 BPSK   | 135     | 138       | 25.49                | 25.45                   | 25.43                 | 26.5                | 0.5      |  |
| 100                     | Pi2 BPSK   | 270     | 0         | 25.42                | 25.44                   | 25.47                 |                     |          |  |
| 100                     | QPSK       | 1       | 1         | 26.04                | 26.07                   | 25.98                 |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 25.95                | 25.99                   | 25.95                 | 27.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       | 25.99                | 25.99                   | 25.92                 |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 24.86                | 24.86                   | 24.89                 |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 26.05                | 26.04                   | 25.95                 | 27.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       | 24.84                | 24.87                   | 24.84                 |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 24.88                | 25.01                   | 24.92                 | 26.0                | 1.0      |  |
| 100                     | 16QAM      | 1       | 1         | 24.72                | 24.68                   | 24.60                 | 26.0                | 1.0      |  |
| 100                     | 64QAM      | 1       | 1         | 23.12                | 23.24                   | 23.13                 | 24.5                | 2.5      |  |
| 100                     | 256QAM     | 1       | 1         | 22.36                | 22.48                   | 22.45                 | 22.5                | 4.5      |  |
| Channel                 |            |         |           | 64668                | 65000                   | 65332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3745.02              | 3840                    | 3934.98               |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 25.92                | 26.03                   | 25.86                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64934                | 65000                   | 65266                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3746.01              | 3840                    | 3939.99               |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 25.93                | 26.04                   | 25.91                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64800                | 65000                   | 65300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3735                 | 3840                    | 3945                  |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 25.92                | 25.98                   | 25.92                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64668                | 65000                   | 65332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3736.02              | 3840                    | 3949.99               |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 25.91                | 25.97                   | 25.91                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64834                | 65000                   | 65366                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3725.01              | 3840                    | 3954.99               |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 25.99                | 25.95                   | 25.98                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64800                | 65000                   | 65400                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3720                 | 3840                    | 3960                  |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 26.00                | 26.03                   | 25.98                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64768                | 65000                   | 65432                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3715.02              | 3840                    | 3964.98               |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 25.95                | 25.98                   | 25.95                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64700                | 65000                   | 65450                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3712.3               | 3840                    | 3967.3                |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 25.97                | 25.97                   | 25.96                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64734                | 65000                   | 65466                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3710.01              | 3840                    | 3969.99               |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 26.03                | 26.00                   | 25.98                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64768                | 65000                   | 65482                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3707.52              | 3840                    | 3972.48               |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 26.01                | 25.99                   | 25.98                 | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 64700                | 65000                   | 65500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3705                 | 3840                    | 3975                  |                     |          |  |
| 10                      | Pi2 BPSK   | 1       | 1         | 25.97                | 25.96                   | 25.97                 | 27.0                | 0.0      |  |



Part27Q\_n78\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633332                | 633332                   | 650000                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 23.15                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 23.12                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 22.91                 |                          |                        | 23.5                | 0.5      |
| 100             | PI2 BPSK   | 135     | 0         | 22.88                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 23.13                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 138       | 22.48                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 22.80                 |                          |                        | 23.5                | 0.5      |
| 100             | QPSK       | 1       | 1         | 23.17                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 23.01                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 271       | 22.88                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 22.17                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 23.15                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 22.01                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 22.12                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 22.11                 |                          |                        | 23.0                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 20.47                 |                          |                        | 21.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 18.98                 |                          |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 613000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3500.01                  | 3505.02                | 24.0                | 0.0      |
| 90              | QPSK       | 1       | 1         | 23.07                 | 23.15                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495.02               | 3500.01                  | 3510                   | 24.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 23.05                 | 23.04                    | 23.07                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3500.01                  | 3515.01                | 24.0                | 0.0      |
| 70              | QPSK       | 1       | 1         | 23.01                 | 23.03                    | 23.05                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3500.01                  | 3520.02                | 24.0                | 0.0      |
| 60              | QPSK       | 1       | 1         | 22.51                 | 22.99                    | 22.94                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631568                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3500.01                  | 3525                   | 24.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 22.93                 | 23.12                    | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 23.00                 | 23.10                    | 22.99                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.98                | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 23.03                 | 22.98                    | 22.94                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                | 24.0                | 0.0      |
| 25              | QPSK       | 1       | 1         | 23.08                 | 23.04                    | 23.00                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630568                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 22.92                 | 23.01                    | 23.04                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 23.00                 | 23.13                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 1         | 22.95                 | 23.07                    | 22.95                  | 24.0                | 0.0      |

Part27O\_n78\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 649668                | 650000                   | 650000                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3750                  |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 23.08                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 23.09                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 22.94                 |                          |                        | 23.5                | 0.5      |
| 100             | PI2 BPSK   | 135     | 0         | 22.67                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 23.08                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 138       | 22.47                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 22.54                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 23.12                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 23.10                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 271       | 22.92                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 22.16                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 23.10                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 22.00                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 22.08                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 22.03                 |                          |                        | 23.0                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 20.77                 |                          |                        | 21.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 19.27                 |                          |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                | 24.0                | 0.0      |
| 90              | QPSK       | 1       | 1         | 23.03                 | 23.08                    | 23.07                  | 24.0                | 0.0      |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                | 24.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 23.10                 | 23.07                    | 23.04                  | 24.0                | 0.0      |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   | 24.0                | 0.0      |
| 70              | QPSK       | 1       | 1         | 22.88                 | 23.02                    | 23.05                  | 24.0                | 0.0      |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                | 24.0                | 0.0      |
| 60              | QPSK       | 1       | 1         | 22.56                 | 23.07                    | 22.91                  | 24.0                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                | 24.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 22.86                 | 23.07                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 22.89                 | 23.03                    | 22.99                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750                     | 3784.98                | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 22.86                 | 23.06                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3712.5                | 3750                     | 3787.5                 | 24.0                | 0.0      |
| 25              | QPSK       | 1       | 1         | 22.99                 | 23.09                    | 23.02                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647234                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.03                 | 22.99                    | 22.90                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3707.52               | 3750                     | 3792.48                | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.94                 | 23.10                    | 22.99                  | 24.0                | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3705                  | 3750                     | 3795                   | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 1         | 22.93                 | 23.08                    | 23.06                  | 24.0                | 0.0      |

Part27Q\_n77\_Ant 9

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633332                | 633332                   | 6499.98                | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 23.30                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 23.23                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 23.13                 |                          |                        | 24.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 0         | 23.23                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 69        | 23.26                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 138       | 23.15                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 270     | 0         | 23.18                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 23.32                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 23.16                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 271       | 23.15                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 23.25                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 23.28                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 23.12                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 23.16                 |                          |                        |                     |          |
| 100             | 16QAM      | 1       | 1         | 23.31                 |                          |                        | 24.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 23.24                 |                          |                        | 24.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 21.76                 |                          |                        | 22.5                | 1.5      |
| Channel         |            |         |           | 613000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                | 24.0                | 0.0      |
| 90              | QPSK       | 1       | 1         | 23.20                 | 23.31                    | 23.27                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495.02               | 3499.98                  | 3510                   | 24.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 23.19                 | 23.31                    | 23.24                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 24.0                | 0.0      |
| 70              | QPSK       | 1       | 1         | 23.08                 | 23.31                    | 23.11                  | 24.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                | 24.0                | 0.0      |
| 60              | QPSK       | 1       | 1         | 23.04                 | 23.30                    | 23.15                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631568                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   | 24.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 23.11                 | 23.23                    | 23.15                  | 24.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 23.10                 | 23.24                    | 23.20                  | 24.0                | 0.       |



| Part27Q_n77(HPUE)_Ant 9 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                 |            |         |           | 63332                 |                          | 3499.98                |                     |          |     |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |     |
| 100                     | Pi/2 BPSK  | 1       | 1         |                       | 26.30                    |                        | 27.0                | 0.0      |     |
| 100                     | Pi/2 BPSK  | 1       | 137       |                       | 26.26                    |                        |                     |          |     |
| 100                     | Pi/2 BPSK  | 1       | 271       |                       | 26.12                    |                        |                     |          |     |
| 100                     | Pi/2 BPSK  | 135     | 0         |                       | 25.86                    |                        | 26.5                | 0.5      |     |
| 100                     | Pi/2 BPSK  | 135     | 69        |                       | 26.31                    |                        | 27.0                | 0.0      |     |
| 100                     | Pi/2 BPSK  | 135     | 138       |                       | 25.64                    |                        | 26.5                | 0.5      |     |
| 100                     | Pi/2 BPSK  | 270     | 0         |                       | 25.79                    |                        |                     |          |     |
| 100                     | QPSK       | 1       | 1         |                       | 26.33                    |                        |                     |          |     |
| 100                     | QPSK       | 1       | 137       |                       | 26.27                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 1       | 271       |                       | 26.12                    |                        | 27.0                | 0.0      |     |
| 100                     | QPSK       | 135     | 0         |                       | 25.82                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 69        |                       | 26.32                    |                        |                     |          |     |
| 100                     | QPSK       | 135     | 138       |                       | 25.13                    |                        | 26.0                | 1.0      |     |
| 100                     | QPSK       | 270     | 0         |                       | 25.30                    |                        |                     |          |     |
| 100                     | 16QAM      | 1       | 1         |                       | 25.44                    |                        | 26.0                | 1.0      |     |
| 100                     | 64QAM      | 1       | 1         |                       | 23.81                    |                        | 24.5                | 2.5      |     |
| 100                     | 256QAM     | 1       | 1         |                       | 21.76                    |                        | 22.5                | 4.5      |     |
| Channel                 |            |         |           | 633000                | 633332                   | 633660                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3504.99                |                     |          |     |
| 90                      | QPSK       | 1       | 1         |                       | 26.24                    | 26.31                  | 26.25               | 27.0     | 0.0 |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |     |
| 80                      | QPSK       | 1       | 1         |                       | 26.16                    | 26.28                  | 26.15               | 27.0     | 0.0 |
| Channel                 |            |         |           | 632234                | 633332                   | 634432                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |     |
| 70                      | QPSK       | 1       | 1         |                       | 26.16                    | 26.19                  | 26.26               | 27.0     | 0.0 |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3460                  | 3499.98                  | 3519.99                |                     |          |     |
| 60                      | QPSK       | 1       | 1         |                       | 26.19                    | 26.30                  | 26.21               | 27.0     | 0.0 |
| Channel                 |            |         |           | 631606                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |     |
| 50                      | QPSK       | 1       | 1         |                       | 26.21                    | 26.17                  | 26.20               | 27.0     | 0.0 |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40                      | QPSK       | 1       | 1         |                       | 26.16                    | 26.25                  | 26.17               | 27.0     | 0.0 |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.98                |                     |          |     |
| 30                      | QPSK       | 1       | 1         |                       | 26.11                    | 26.18                  | 26.20               | 27.0     | 0.0 |
| Channel                 |            |         |           | 630634                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |     |
| 25                      | QPSK       | 1       | 1         |                       | 26.10                    | 26.28                  | 26.19               | 27.0     | 0.0 |
| Channel                 |            |         |           | 630306                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20                      | QPSK       | 1       | 1         |                       | 26.10                    | 26.22                  | 26.09               | 27.0     | 0.0 |
| Channel                 |            |         |           | 630000                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |     |
| 15                      | QPSK       | 1       | 1         |                       | 26.18                    | 26.26                  | 26.08               | 27.0     | 0.0 |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |     |
| 10                      | Pi/2 BPSK  | 1       | 1         |                       | 26.17                    | 26.20                  | 26.20               | 27.0     | 0.0 |

| Part27O_n77_Ant 9 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 660000                |                          | 3750                   |                     |          |     |
| Frequency (MHz)   |            |         |           |                       |                          |                        |                     |          |     |
| 100               | Pi/2 BPSK  | 1       | 1         |                       | 23.09                    | 23.11                  | 23.04               | 24.0     | 0.0 |
| 100               | Pi/2 BPSK  | 1       | 137       |                       | 23.08                    | 23.06                  | 23.01               |          |     |
| 100               | Pi/2 BPSK  | 1       | 271       |                       | 23.07                    | 23.05                  | 22.98               |          |     |
| 100               | Pi/2 BPSK  | 135     | 0         |                       | 23.06                    | 23.02                  | 22.92               | 24.0     | 0.0 |
| 100               | Pi/2 BPSK  | 135     | 69        |                       | 22.99                    | 23.07                  | 22.97               | 24.0     | 0.0 |
| 100               | Pi/2 BPSK  | 135     | 138       |                       | 23.05                    | 23.02                  | 22.94               | 24.0     | 0.0 |
| 100               | Pi/2 BPSK  | 270     | 0         |                       | 22.98                    | 22.95                  | 22.83               |          |     |
| 100               | QPSK       | 1       | 1         |                       | 23.13                    | 23.15                  | 23.06               |          |     |
| 100               | QPSK       | 1       | 137       |                       | 22.90                    | 22.90                  | 22.78               | 24.0     | 0.0 |
| 100               | QPSK       | 1       | 271       |                       | 23.11                    | 23.09                  | 23.02               | 24.0     | 0.0 |
| 100               | QPSK       | 135     | 0         |                       | 22.86                    | 22.97                  | 22.89               |          |     |
| 100               | QPSK       | 135     | 69        |                       | 23.01                    | 23.13                  | 23.00               |          |     |
| 100               | QPSK       | 135     | 138       |                       | 22.88                    | 22.98                  | 22.89               | 24.0     | 0.0 |
| 100               | QPSK       | 270     | 0         |                       | 22.97                    | 23.10                  | 23.00               |          |     |
| 100               | 16QAM      | 1       | 1         |                       | 23.06                    | 23.10                  | 23.01               | 24.0     | 0.0 |
| 100               | 64QAM      | 1       | 1         |                       | 22.59                    | 22.64                  | 22.56               | 24.0     | 0.0 |
| 100               | 256QAM     | 1       | 1         |                       | 21.46                    | 21.57                  | 21.58               | 22.5     | 1.5 |
| Channel           |            |         |           | 646668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |     |
| 90                | QPSK       | 1       | 1         |                       | 23.08                    | 23.14                  | 23.04               | 24.0     | 0.0 |
| Channel           |            |         |           | 649334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |     |
| 80                | QPSK       | 1       | 1         |                       | 23.13                    | 23.07                  | 22.90               | 24.0     | 0.0 |
| Channel           |            |         |           | 648600                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |     |
| 70                | QPSK       | 1       | 1         |                       | 23.09                    | 22.98                  | 22.92               | 24.0     | 0.0 |
| Channel           |            |         |           | 648668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |     |
| 60                | QPSK       | 1       | 1         |                       | 23.06                    | 22.99                  | 23.07               | 24.0     | 0.0 |
| Channel           |            |         |           | 648334                | 650000                   | 653066                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |     |
| 50                | QPSK       | 1       | 1         |                       | 22.98                    | 23.01                  | 22.96               | 24.0     | 0.0 |
| Channel           |            |         |           | 648000                | 650000                   | 654000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |     |
| 40                | QPSK       | 1       | 1         |                       | 23.07                    | 23.14                  | 23.02               | 24.0     | 0.0 |
| Channel           |            |         |           | 647668                | 650000                   | 654332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |     |
| 30                | QPSK       | 1       | 1         |                       | 22.98                    | 23.01                  | 23.02               | 24.0     | 0.0 |
| Channel           |            |         |           | 647500                | 650000                   | 654500                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |     |
| 25                | QPSK       | 1       | 1         |                       | 23.11                    | 23.14                  | 23.07               | 24.0     | 0.0 |
| Channel           |            |         |           | 647234                | 650000                   | 654666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.98                |                     |          |     |
| 20                | QPSK       | 1       | 1         |                       | 23.13                    | 23.10                  | 23.02               | 24.0     | 0.0 |
| Channel           |            |         |           | 647168                | 650000                   | 654832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |     |
| 15                | QPSK       | 1       | 1         |                       | 23.12                    | 23.08                  | 23.06               | 24.0     | 0.0 |
| Channel           |            |         |           | 647000                | 650000                   | 655000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |     |
| 10                | Pi/2 BPSK  | 1       | 1         |                       | 23.00                    | 23.02                  | 22.95               | 24.0     | 0.0 |

| Part27O_n77(HPUE)_Ant 9 |            |         |           |                       |                          |                        |                    |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dB) | MPR (dB) |  |
| Channel                 |            |         |           | 650000                |                          | 3750                   |                    |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                    |          |  |
| 100                     | Pi/2 BPSK  | 1       | 1         | 26.05                 | 26.08                    | 26.01                  | 27.0               | 0.0      |  |
| 100                     | Pi/2 BPSK  | 1       | 137       | 26.03                 | 26.00                    | 26.00                  |                    |          |  |
| 100                     | Pi/2 BPSK  | 1       | 271       | 26.03                 | 26.02                    | 25.97                  |                    |          |  |
| 100                     | Pi/2 BPSK  | 135     | 0         | 25.43                 | 25.54                    | 25.55                  | 26.5               | 0.5      |  |
| 100                     | Pi/2 BPSK  | 135     | 69        | 26.04                 | 26.06                    | 26.00                  | 27.0               | 0.0      |  |
| 100                     | Pi/2 BPSK  | 135     | 138       | 25.47                 | 25.98                    | 25.60                  | 26.5               | 0.5      |  |
| 100                     | Pi/2 BPSK  | 270     | 0         | 25.48                 | 25.54                    | 25.45                  |                    |          |  |
| 100                     | QPSK       | 1       | 1         | 26.06                 | 26.10                    | 26.03                  |                    |          |  |
| 100                     | QPSK       | 1       | 137       | 25.88                 | 25.90                    | 25.86                  | 27.0               | 0.0      |  |
| 100                     | QPSK       | 1       | 271       | 25.71                 | 25.62                    | 25.80                  | 27.0               | 0.0      |  |
| 100                     | QPSK       | 135     | 0         | 25.09                 | 25.05                    | 25.02                  |                    |          |  |
| 100                     | QPSK       | 135     | 69        | 26.01                 | 26.08                    | 26.00                  |                    |          |  |
| 100                     | QPSK       | 135     | 138       | 25.01                 | 25.04                    | 25.01                  | 26.0               | 1.0      |  |
| 100                     | QPSK       | 270     | 0         | 24.98                 | 25.02                    | 24.88                  | 26.0               | 1.0      |  |
| 100                     | 16QAM      | 1       | 1         | 24.77                 | 24.88                    | 24.86                  | 26.0               | 1.0      |  |
| 100                     | 64QAM      | 1       | 1         | 23.18                 | 23.14                    | 23.09                  | 24.5               | 2.5      |  |
| 100                     | 256QAM     | 1       | 1         | 21.40                 | 21.36                    | 21.35                  | 22.5               | 4.5      |  |
| Channel                 |            |         |           | 646666                |                          | 663333                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3745.02               |                          | 3840                   |                    | 3934.98  |  |
| 90                      | QPSK       | 1       | 1         | 25.95                 | 26.00                    | 26.01                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 648334                |                          | 656000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3742.01               |                          | 3840                   |                    | 3939.99  |  |
| 80                      | QPSK       | 1       | 1         | 25.85                 | 26.01                    | 25.95                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 648000                |                          | 656000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3735                  |                          | 3840                   |                    | 3945     |  |
| 70                      | QPSK       | 1       | 1         | 25.99                 | 25.96                    | 25.91                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 648666                |                          | 663333                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3732.02               |                          | 3840                   |                    | 3948.98  |  |
| 60                      | QPSK       | 1       | 1         | 25.86                 | 25.96                    | 25.93                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 648334                |                          | 656000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3725.01               |                          | 3840                   |                    | 3954.99  |  |
| 50                      | QPSK       | 1       | 1         | 26.04                 | 25.94                    | 26.01                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 648000                |                          | 656000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3720                  |                          | 3840                   |                    | 3960     |  |
| 40                      | QPSK       | 1       | 1         | 26.03                 | 25.93                    | 26.00                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 647668                |                          | 652000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3715.02               |                          | 3840                   |                    | 3964.98  |  |
| 30                      | QPSK       | 1       | 1         | 26.04                 | 26.02                    | 25.92                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 647500                |                          | 655000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3712.5                |                          | 3840                   |                    | 3967.5   |  |
| 25                      | QPSK       | 1       | 1         | 26.03                 | 26.05                    | 25.99                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 647334                |                          | 650000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3710.01               |                          | 3840                   |                    | 3969.99  |  |
| 20                      | QPSK       | 1       | 1         | 26.07                 | 26.03                    | 26.02                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 647168                |                          | 656000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3707.52               |                          | 3840                   |                    | 3972.48  |  |
| 15                      | QPSK       | 1       | 1         | 26.05                 | 26.06                    | 26.04                  | 27.0               | 0.0      |  |
| Channel                 |            |         |           | 647000                |                          | 650000                 |                    |          |  |
| Frequency (MHz)         |            |         |           | 3705                  |                          | 3840                   |                    | 3975     |  |
| 10                      | Pi/2 BPSK  | 1       | 1         | 25.96                 | 26.00                    | 25.99                  | 27.0               | 0.0      |  |

| Part27Q_n78_Ant 9 |            |         |           |                      |                         |                       |                     |          |     |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 633332               | 633332                  |                       |                     |          |     |
| Frequency (MHz)   |            |         |           | 3499.98              | 3499.98                 |                       |                     |          |     |
| 100               | PI/2 BPSK  | 1       | 1         |                      | 23.28                   |                       | 24.0                | 0.0      |     |
| 100               | PI/2 BPSK  | 1       | 137       |                      | 23.20                   |                       |                     |          |     |
| 100               | PI/2 BPSK  | 1       | 271       |                      | 23.15                   |                       |                     |          |     |
| 100               | PI/2 BPSK  | 135     | 0         |                      | 22.81                   |                       | 23.5                | 0.5      |     |
| 100               | PI/2 BPSK  | 135     | 69        |                      | 23.16                   |                       |                     |          |     |
| 100               | PI/2 BPSK  | 135     | 138       |                      | 22.80                   |                       |                     |          |     |
| 100               | PI/2 BPSK  | 270     | 0         |                      | 22.65                   |                       | 23.5                | 0.5      |     |
| 100               | QPSK       | 1       | 1         |                      | 23.29                   |                       |                     |          |     |
| 100               | QPSK       | 1       | 137       |                      | 23.17                   |                       |                     |          |     |
| 100               | QPSK       | 1       | 271       |                      | 23.12                   |                       | 24.0                | 0.0      |     |
| 100               | QPSK       | 135     | 0         |                      | 22.28                   |                       |                     |          |     |
| 100               | QPSK       | 135     | 69        |                      | 23.26                   |                       |                     |          |     |
| 100               | QPSK       | 135     | 138       |                      | 22.12                   |                       | 24.0                | 0.0      |     |
| 100               | QPSK       | 270     | 0         |                      | 22.21                   |                       |                     |          |     |
| 100               | 16QAM      | 1       | 1         |                      | 22.45                   |                       |                     | 23.0     |     |
| 100               | 64QAM      | 1       | 1         |                      | 21.05                   |                       |                     |          |     |
| 100               | 256QAM     | 1       | 1         |                      | 19.92                   |                       |                     | 21.5     |     |
| Channel           |            |         |           | 633000               | 633334                  | 633668                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3495                 | 3500.01                 | 3505.02               |                     |          |     |
| 90                | QPSK       | 1       | 1         |                      | 23.05                   | 23.25                 | 23.16               | 24.0     | 0.0 |
| Channel           |            |         |           | 632668               | 633334                  | 634000                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3490.02              | 3500.01                 | 3510                  |                     |          |     |
| 80                | QPSK       | 1       | 1         |                      | 23.12                   | 23.16                 | 23.09               | 24.0     | 0.0 |
| Channel           |            |         |           | 632334               | 633334                  | 634334                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3485.01              | 3500.01                 | 3515.01               |                     |          |     |
| 70                | QPSK       | 1       | 1         |                      | 23.03                   | 23.27                 | 23.19               | 24.0     | 0.0 |
| Channel           |            |         |           | 632000               | 633334                  | 634668                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3480                 | 3500.01                 | 3520.02               |                     |          |     |
| 60                | QPSK       | 1       | 1         |                      | 23.19                   | 23.23                 | 23.20               | 24.0     | 0.0 |
| Channel           |            |         |           | 631668               | 633334                  | 635000                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3475.02              | 3500.01                 | 3525                  |                     |          |     |
| 50                | QPSK       | 1       | 1         |                      | 23.09                   | 23.26                 | 23.11               | 24.0     | 0.0 |
| Channel           |            |         |           | 631334               | 633332                  | 635332                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3470.01              | 3499.98                 | 3529.98               |                     |          |     |
| 40                | QPSK       | 1       | 1         |                      | 23.10                   | 23.28                 | 23.16               | 24.0     | 0.0 |
| Channel           |            |         |           | 631000               | 633332                  | 635668                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3465                 | 3499.98                 | 3534.98               |                     |          |     |
| 30                | QPSK       | 1       | 1         |                      | 23.10                   | 23.24                 | 23.09               | 24.0     | 0.0 |
| Channel           |            |         |           | 630634               | 633332                  | 635932                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3462.51              | 3499.98                 | 3537.48               |                     |          |     |
| 25                | QPSK       | 1       | 1         |                      | 23.06                   | 23.27                 | 23.07               | 24.0     | 0.0 |
| Channel           |            |         |           | 630268               | 633332                  | 636000                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3460.02              | 3499.98                 | 3540                  |                     |          |     |
| 20                | QPSK       | 1       | 1         |                      | 23.12                   | 23.17                 | 23.03               | 24.0     | 0.0 |
| Channel           |            |         |           | 630500               | 633332                  | 636166                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3457.5               | 3499.98                 | 3542.49               |                     |          |     |
| 15                | QPSK       | 1       | 1         |                      | 23.15                   | 23.26                 | 23.05               | 24.0     | 0.0 |
| Channel           |            |         |           | 630334               | 633332                  | 636332                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3455.01              | 3499.98                 | 3544.98               |                     |          |     |
| 10                | PI/2 BPSK  | 1       | 1         |                      | 23.08                   | 23.16                 | 23.07               | 24.0     | 0.0 |

| Part27O_n78_Ant 9 |            |         |           |                      |                         |                       |                     |          |     |
|-------------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 650000               | 650000                  |                       |                     |          |     |
| Frequency (MHz)   |            |         |           | 3750                 | 3750                    |                       |                     |          |     |
| 100               | PI/2 BPSK  | 1       | 1         |                      | 23.11                   |                       | 24.0                | 0.0      |     |
| 100               | PI/2 BPSK  | 1       | 137       |                      | 23.02                   |                       |                     |          |     |
| 100               | PI/2 BPSK  | 1       | 271       |                      | 22.79                   |                       |                     |          |     |
| 100               | PI/2 BPSK  | 135     | 0         |                      | 22.61                   |                       | 23.5                | 0.5      |     |
| 100               | PI/2 BPSK  | 135     | 69        |                      | 23.05                   |                       |                     |          |     |
| 100               | PI/2 BPSK  | 135     | 138       |                      | 22.40                   |                       |                     |          |     |
| 100               | PI/2 BPSK  | 270     | 0         |                      | 22.46                   |                       | 23.5                | 0.5      |     |
| 100               | QPSK       | 1       | 1         |                      | 23.13                   |                       |                     |          |     |
| 100               | QPSK       | 1       | 137       |                      | 23.00                   |                       |                     |          |     |
| 100               | QPSK       | 1       | 271       |                      | 22.82                   |                       | 24.0                | 0.0      |     |
| 100               | QPSK       | 135     | 0         |                      | 22.41                   |                       |                     |          |     |
| 100               | QPSK       | 135     | 69        |                      | 23.11                   |                       |                     |          |     |
| 100               | QPSK       | 135     | 138       |                      | 22.05                   |                       | 23.0                | 1.0      |     |
| 100               | QPSK       | 270     | 0         |                      | 22.06                   |                       |                     |          |     |
| 100               | 16QAM      | 1       | 1         |                      | 22.24                   |                       |                     | 23.0     |     |
| 100               | 64QAM      | 1       | 1         |                      | 21.08                   |                       |                     |          |     |
| 100               | 256QAM     | 1       | 1         |                      | 19.30                   |                       |                     | 19.5     |     |
| Channel           |            |         |           | 649668               | 650000                  | 650332                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3745.02              | 3750                    | 3754.98               |                     |          |     |
| 90                | QPSK       | 1       | 1         |                      | 23.10                   | 23.11                 | 23.06               | 24.0     | 0.0 |
| Channel           |            |         |           | 649334               | 650000                  | 650668                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3740.01              | 3750                    | 3759.99               |                     |          |     |
| 80                | QPSK       | 1       | 1         |                      | 23.10                   | 22.95                 | 22.91               | 24.0     | 0.0 |
| Channel           |            |         |           | 649000               | 650000                  | 651000                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3735                 | 3750                    | 3765                  |                     |          |     |
| 70                | QPSK       | 1       | 1         |                      | 22.96                   | 23.03                 | 23.00               | 24.0     | 0.0 |
| Channel           |            |         |           | 648668               | 650000                  | 651332                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3730.02              | 3750                    | 3769.98               |                     |          |     |
| 60                | QPSK       | 1       | 1         |                      | 22.97                   | 22.96                 | 22.90               | 24.0     | 0.0 |
| Channel           |            |         |           | 648334               | 650000                  | 651668                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3725.01              | 3750                    | 3774.99               |                     |          |     |
| 50                | QPSK       | 1       | 1         |                      | 22.95                   | 23.02                 | 22.90               | 24.0     | 0.0 |
| Channel           |            |         |           | 648000               | 650000                  | 652000                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3720                 | 3750                    | 3780                  |                     |          |     |
| 40                | QPSK       | 1       | 1         |                      | 22.99                   | 23.07                 | 23.00               | 24.0     | 0.0 |
| Channel           |            |         |           | 647668               | 650000                  | 652332                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3715.02              | 3750                    | 3784.98               |                     |          |     |
| 30                | QPSK       | 1       | 1         |                      | 23.02                   | 23.05                 | 22.89               | 24.0     | 0.0 |
| Channel           |            |         |           | 647500               | 650000                  | 652500                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3712.5               | 3750                    | 3787.5                |                     |          |     |
| 25                | QPSK       | 1       | 1         |                      | 23.07                   | 23.11                 | 22.95               | 24.0     | 0.0 |
| Channel           |            |         |           | 647334               | 650000                  | 652668                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3710.01              | 3750                    | 3789.99               |                     |          |     |
| 20                | QPSK       | 1       | 1         |                      | 22.96                   | 23.02                 | 22.93               | 24.0     | 0.0 |
| Channel           |            |         |           | 647168               | 650000                  | 652832                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3707.52              | 3750                    | 3792.48               |                     |          |     |
| 15                | QPSK       | 1       | 1         |                      | 22.95                   | 22.94                 | 23.04               | 24.0     | 0.0 |
| Channel           |            |         |           | 647000               | 650000                  | 653000                |                     |          |     |
| Frequency (MHz)   |            |         |           | 3705                 | 3750                    | 3795                  |                     |          |     |
| 10                | PI/2 BPSK  | 1       | 1         |                      | 22.93                   | 22.97                 | 23.02               | 24.0     | 0.0 |



Reduced Power Mode for DSI2

| n2_Ant 1        |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20              | PV2 BPSK   | 1       | 1         | 15.84                 | 15.89                    | 15.89                  | 16.5                | 0.0      |
| 20              | PV2 BPSK   | 1       | 53        | 15.80                 | 15.77                    | 15.71                  |                     |          |
| 20              | PV2 BPSK   | 1       | 104       | 15.78                 | 15.82                    | 15.75                  | 16.5                | 0.0      |
| 20              | PV2 BPSK   | 50      | 0         | 15.75                 | 15.78                    | 15.85                  | 16.5                | 0.0      |
| 20              | PV2 BPSK   | 50      | 28        | 15.78                 | 15.69                    | 15.75                  | 16.5                | 0.0      |
| 20              | PV2 BPSK   | 50      | 56        | 15.64                 | 15.86                    | 15.77                  | 16.5                | 0.0      |
| 20              | PV2 BPSK   | 100     | 0         | 15.71                 | 15.83                    | 15.68                  | 16.5                | 0.0      |
| 20              | QPSK       | 1       | 1         | 15.81                 | 15.90                    | 15.85                  | 16.5                | 0.0      |
| 20              | QPSK       | 1       | 53        | 15.79                 | 15.82                    | 15.71                  |                     |          |
| 20              | QPSK       | 1       | 104       | 15.75                 | 15.88                    | 15.77                  | 16.5                | 0.0      |
| 20              | QPSK       | 50      | 0         | 15.75                 | 15.82                    | 15.79                  | 16.5                | 0.0      |
| 20              | QPSK       | 50      | 28        | 15.78                 | 15.68                    | 15.83                  | 16.5                | 0.0      |
| 20              | QPSK       | 50      | 56        | 15.74                 | 15.76                    | 15.79                  | 16.5                | 0.0      |
| 20              | QPSK       | 100     | 0         | 15.75                 | 15.85                    | 15.78                  | 16.5                | 0.0      |
| 20              | 16QAM      | 1       | 1         | 15.71                 | 15.74                    | 15.85                  | 16.5                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 15.64                 | 15.74                    | 15.81                  | 16.5                | 0.0      |
| 20              | 256QAM     | 1       | 1         | 15.85                 | 15.81                    | 15.61                  | 16.5                | 0.0      |
| Channel         |            |         |           | 371000                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1902.5                 | 16.5                | 0.0      |
| 15              | QPSK       | 1       | 1         | 15.85                 | 15.79                    | 15.72                  | 16.5                | 0.0      |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   | 16.5                | 0.0      |
| 10              | QPSK       | 1       | 1         | 15.82                 | 15.87                    | 15.75                  | 16.5                | 0.0      |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 | 16.5                | 0.0      |
| 5               | QPSK       | 1       | 1         | 15.85                 | 15.80                    | 15.77                  | 16.5                | 0.0      |

| n2_Ant 2        |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20              | Pi2 BPSK   | 1       | 1         | 23.20                 | 23.25                    | 23.31                  | 24.0                | 0.0      |
| 20              | Pi2 BPSK   | 1       | 53        | 23.28                 | 23.37                    | 23.27                  |                     |          |
| 20              | Pi2 BPSK   | 1       | 104       | 23.34                 | 23.42                    | 23.10                  |                     |          |
| 20              | Pi2 BPSK   | 50      | 0         | 22.84                 | 22.88                    | 22.87                  | 23.5                | 0.5      |
| 20              | Pi2 BPSK   | 50      | 28        | 23.08                 | 23.38                    | 23.12                  | 24.0                | 0.0      |
| 20              | Pi2 BPSK   | 50      | 56        | 22.83                 | 22.83                    | 22.80                  | 23.5                | 0.5      |
| 20              | Pi2 BPSK   | 100     | 0         | 22.61                 | 22.87                    | 22.65                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.26                 | 23.45                    | 23.27                  |                     |          |
| 20              | QPSK       | 1       | 53        | 23.15                 | 23.42                    | 23.24                  |                     |          |
| 20              | QPSK       | 1       | 104       | 23.22                 | 23.41                    | 23.13                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 0         | 22.10                 | 22.33                    | 22.21                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 23.23                 | 23.41                    | 23.24                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 56        | 22.16                 | 22.33                    | 22.10                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.09                 | 22.36                    | 22.16                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 22.03                 | 22.29                    | 22.53                  |                     |          |
| 20              | 64QAM      | 1       | 1         | 20.59                 | 20.63                    | 20.74                  | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.55                 | 18.83                    | 19.02                  | 19.5                | 4.5      |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.80                 | 23.39                    | 23.30                  | 24.0                | 0.0      |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.79                 | 23.26                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.17                 | 23.35                    | 23.01                  | 24.0                | 0.0      |

| n5_Ant 0        |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 166800                | 167300                   | 167800                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | Pi2 BPSK   | 1       | 1         | 23.17                 | 23.09                    | 23.14                  | 24.0                | 0.0      |
| 20              | Pi2 BPSK   | 1       | 53        | 23.17                 | 23.12                    | 23.16                  |                     |          |
| 20              | Pi2 BPSK   | 1       | 104       | 22.67                 | 22.89                    | 22.32                  | 23.5                | 0.5      |
| 20              | Pi2 BPSK   | 50      | 0         | 22.59                 | 22.67                    | 22.82                  | 24.0                | 0.0      |
| 20              | Pi2 BPSK   | 50      | 28        | 22.58                 | 22.57                    | 22.65                  | 23.5                | 0.0      |
| 20              | Pi2 BPSK   | 50      | 56        | 22.63                 | 22.48                    | 22.45                  | 23.5                | 0.5      |
| 20              | Pi2 BPSK   | 100     | 0         | 22.71                 | 22.63                    | 22.61                  |                     |          |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.18                    | 23.16                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 23.08                 | 23.07                    | 23.12                  |                     |          |
| 20              | QPSK       | 1       | 104       | 22.19                 | 22.20                    | 22.28                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 0         | 22.89                 | 22.11                    | 22.10                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.10                 | 22.15                    | 22.14                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 56        | 22.06                 | 21.93                    | 21.96                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.14                 | 22.20                    | 22.18                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 22.28                 | 22.28                    | 22.09                  | 23.0                | 1.0      |
| 20              | 64QAM      | 1       | 1         | 20.90                 | 20.67                    | 20.71                  | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.41                 | 18.48                    | 18.40                  | 19.5                | 4.5      |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 23.14                 | 23.11                    | 22.94                  | 24.0                | 0.0      |
| Channel         |            |         |           | 165800                | 167300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 23.14                 | 23.09                    | 23.00                  | 24.0                | 0.0      |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.09                 | 23.06                    | 23.00                  | 24.0                | 0.0      |



| n5_Ant 1        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 166800                | 167300                   | 167800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 23.10                 | 23.09                    | 23.08                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 23.05                 | 23.05                    | 23.14                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 1       | 104       | 23.07                 | 23.10                    | 22.27                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.83                 | 22.92                    | 22.35                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 28        | 23.05                 | 23.01                    | 23.14                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.58                 | 22.63                    | 22.40                  |                     |          |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.81                 | 22.79                    | 22.77                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.04                 | 23.15                    | 23.05                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 22.99                 | 23.06                    | 23.01                  |                     |          |  |
| 20              | QPSK       | 1       | 104       | 22.59                 | 22.62                    | 22.61                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.13                 | 22.11                    | 22.11                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 50      | 28        | 22.35                 | 23.07                    | 22.37                  |                     |          |  |
| 20              | QPSK       | 50      | 56        | 21.99                 | 21.97                    | 21.90                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 22.00                 | 22.04                    | 22.03                  | 23.0                | 1.0      |  |
| 20              | 16QAM      | 1       | 1         | 22.13                 | 22.10                    | 22.08                  |                     |          |  |
| 20              | 64QAM      | 1       | 1         | 20.45                 | 20.47                    | 20.45                  |                     | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 18.59                 | 18.62                    | 18.60                  |                     |          |  |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.92                 | 23.08                    | 23.10                  |                     |          |  |
| Channel         |            |         |           | 165800                | 167300                   | 168800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.88                 | 23.11                    | 22.95                  |                     |          |  |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 829.5                 | 836.5                    | 846.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.03                 | 22.97                    | 22.90                  |                     |          |  |

| n7_Ant 1        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 504000                | 507000                   | 510000                 | 15.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2520                  | 2535                     | 2550                   |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 14.75                 | 14.73                    | 14.47                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 14.56                 | 14.78                    | 14.64                  | 15.5                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 214       | 14.49                 | 14.71                    | 14.49                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 14.73                 | 14.78                    | 14.79                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 54        | 14.62                 | 14.64                    | 14.65                  | 15.5                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 14.68                 | 14.74                    | 14.54                  |                     |          |  |
| 40              | PI2 BPSK   | 216     | 0         | 14.70                 | 14.64                    | 14.53                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 14.77                 | 14.81                    | 14.76                  | 15.5                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 14.53                 | 14.77                    | 14.78                  |                     |          |  |
| 40              | QPSK       | 1       | 214       | 14.71                 | 14.69                    | 14.66                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 14.60                 | 14.75                    | 14.72                  | 15.5                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 14.72                 | 14.79                    | 14.75                  |                     |          |  |
| 40              | QPSK       | 108     | 108       | 14.39                 | 14.66                    | 14.65                  |                     |          |  |
| 40              | QPSK       | 216     | 0         | 14.70                 | 14.76                    | 14.67                  | 15.5                | 0.0      |  |
| 40              | 16QAM      | 1       | 1         | 14.55                 | 14.63                    | 14.37                  |                     |          |  |
| 40              | 64QAM      | 1       | 1         | 14.47                 | 14.74                    | 14.57                  |                     | 15.5     |  |
| 40              | 256QAM     | 1       | 1         | 14.53                 | 14.78                    | 14.52                  |                     |          |  |
| Channel         |            |         |           | 507000                | 507000                   | 511000                 | 15.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2515                  | 2535                     | 2555                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 14.65                 | 14.68                    | 14.69                  |                     |          |  |
| Channel         |            |         |           | 502500                | 507000                   | 511500                 | 15.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2512.5                | 2535                     | 2557.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 14.63                 | 14.58                    | 14.58                  |                     |          |  |
| Channel         |            |         |           | 502000                | 507000                   | 512000                 | 15.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 14.39                 | 14.39                    | 14.45                  |                     |          |  |
| Channel         |            |         |           | 501500                | 507000                   | 512500                 | 15.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 14.70                 | 14.67                    | 14.63                  |                     |          |  |
| Channel         |            |         |           | 501000                | 507000                   | 513000                 | 15.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 14.50                 | 14.63                    | 14.60                  |                     |          |  |
| Channel         |            |         |           | 500500                | 507000                   | 513500                 | 15.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 14.47                 | 14.74                    | 14.47                  |                     |          |  |

| n12_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 141300                | 141500                   | 141700                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 706.5                 | 707.5                    | 708.5                  |                     |          |  |
| 15              | PI2 BPSK   | 1       | 1         | 23.15                 | 23.14                    | 23.16                  |                     |          |  |
| 15              | PI2 BPSK   | 1       | 40        | 23.11                 | 23.11                    | 23.16                  | 23.5                | 0.5      |  |
| 15              | PI2 BPSK   | 1       | 77        | 23.17                 | 23.11                    | 23.19                  |                     |          |  |
| 15              | PI2 BPSK   | 36      | 0         | 22.61                 | 22.72                    | 22.69                  |                     |          |  |
| 15              | PI2 BPSK   | 36      | 22        | 23.11                 | 23.17                    | 23.16                  | 23.5                | 0.5      |  |
| 15              | PI2 BPSK   | 36      | 43        | 22.78                 | 22.78                    | 22.78                  |                     |          |  |
| 15              | PI2 BPSK   | 75      | 0         | 22.79                 | 22.72                    | 22.73                  |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.16                 | 23.22                    | 23.19                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 40        | 23.12                 | 23.20                    | 23.17                  |                     |          |  |
| 15              | QPSK       | 1       | 77        | 23.15                 | 23.18                    | 23.14                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 22.16                 | 22.16                    | 22.19                  | 23.0                | 1.0      |  |
| 15              | QPSK       | 36      | 22        | 23.13                 | 23.20                    | 23.19                  |                     |          |  |
| 15              | QPSK       | 36      | 43        | 22.27                 | 22.11                    | 22.24                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 22.24                 | 22.27                    | 22.28                  | 23.0                | 1.0      |  |
| 15              | 16QAM      | 1       | 1         | 21.67                 | 22.15                    | 22.45                  |                     |          |  |
| 15              | 64QAM      | 1       | 1         | 20.68                 | 20.86                    | 21.02                  |                     | 2.5      |  |
| 15              | 256QAM     | 1       | 1         | 18.29                 | 18.24                    | 18.52                  |                     |          |  |
| Channel         |            |         |           | 140800                | 141500                   | 142200                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.06                 | 23.12                    | 23.02                  |                     |          |  |
| Channel         |            |         |           | 140300                | 141500                   | 142700                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.02                 | 23.16                    | 23.07                  |                     |          |  |



n14\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 158600                |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 793                   |                          |                        |                     |          |
| 10              | PI/2 BPSK  | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |
| 10              | PI/2 BPSK  | 1       | 26        | 22.77                 |                          |                        |                     |          |
| 10              | PI/2 BPSK  | 1       | 50        | 22.70                 |                          |                        |                     |          |
| 10              | PI/2 BPSK  | 25      | 0         | 22.26                 |                          |                        | 23.5                | 0.5      |
| 10              | PI/2 BPSK  | 25      | 14        | 22.82                 |                          |                        | 24.0                | 0.0      |
| 10              | PI/2 BPSK  | 25      | 27        | 22.15                 |                          |                        | 23.5                | 0.5      |
| 10              | PI/2 BPSK  | 50      | 0         | 22.29                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 22.83                 |                          |                        | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 22.82                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 50        | 22.64                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 0         | 21.76                 |                          |                        | 23.0                | 1.0      |
| 10              | QPSK       | 25      | 14        | 22.81                 |                          |                        | 24.0                | 0.0      |
| 10              | QPSK       | 25      | 27        | 21.73                 |                          |                        | 23.0                | 1.0      |
| 10              | QPSK       | 50      | 0         | 21.78                 |                          |                        |                     |          |
| 10              | 16QAM      | 1       | 1         | 22.13                 |                          |                        | 23.0                | 1.0      |
| 10              | 64QAM      | 1       | 1         | 20.62                 |                          |                        | 21.5                | 2.5      |
| 10              | 256QAM     | 1       | 1         | 18.06                 |                          |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 158100                | 159100                   |                        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 789.5                 | 795.5                    |                        |                     |          |
| 5               | QPSK       | 1       | 1         | 22.80                 | 22.78                    | 22.67                  | 24.0                | 0.0      |

n25\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 372000                | 376500                   | 381000                 |                     |          |
| Frequency (MHz) |            |         |           | 1860                  | 1882.5                   | 1905                   |                     |          |
| 20              | PI/2 BPSK  | 1       | 1         | 15.67                 | 15.85                    | 15.67                  | 16.5                | 0.0      |
| 20              | PI/2 BPSK  | 1       | 53        | 15.90                 | 15.91                    | 15.81                  |                     |          |
| 20              | PI/2 BPSK  | 1       | 104       | 15.76                 | 15.62                    | 15.71                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 0         | 15.81                 | 15.88                    | 15.78                  | 16.5                | 0.0      |
| 20              | PI/2 BPSK  | 50      | 28        | 15.85                 | 15.91                    | 15.82                  | 16.5                | 0.0      |
| 20              | PI/2 BPSK  | 50      | 56        | 15.85                 | 15.87                    | 15.86                  | 16.5                | 0.0      |
| 20              | PI/2 BPSK  | 100     | 0         | 15.78                 | 15.91                    | 15.86                  |                     |          |
| 20              | QPSK       | 1       | 1         | 15.70                 | 15.92                    | 15.87                  | 16.5                | 0.0      |
| 20              | QPSK       | 1       | 53        | 15.45                 | 15.72                    | 15.76                  |                     |          |
| 20              | QPSK       | 1       | 104       | 15.68                 | 15.90                    | 15.67                  |                     |          |
| 20              | QPSK       | 50      | 0         | 15.85                 | 15.89                    | 15.83                  | 16.5                | 0.0      |
| 20              | QPSK       | 50      | 28        | 15.88                 | 15.91                    | 15.85                  | 16.5                | 0.0      |
| 20              | QPSK       | 50      | 56        | 15.85                 | 15.87                    | 15.83                  | 16.5                | 0.0      |
| 20              | QPSK       | 100     | 0         | 15.81                 | 15.89                    | 15.81                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 15.73                 | 15.76                    | 15.65                  | 16.5                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 15.60                 | 15.81                    | 15.86                  | 16.5                | 0.0      |
| 20              | 256QAM     | 1       | 1         | 15.58                 | 15.77                    | 15.71                  | 16.5                | 0.0      |
| Channel         |            |         |           | 371000                | 376500                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1857.5                | 1882.5                   | 1907.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 15.43                 | 15.63                    | 15.48                  | 16.5                | 0.0      |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1882.5                   | 1910                   |                     |          |
| 10              | QPSK       | 1       | 1         | 15.41                 | 15.61                    | 15.43                  | 16.5                | 0.0      |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1882.5                   | 1912.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 15.37                 | 15.50                    | 15.36                  | 16.5                | 0.0      |

n25\_Ant 2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 372000                | 376500                   | 381000                 |                     |          |
| Frequency (MHz) |            |         |           | 1860                  | 1882.5                   | 1905                   |                     |          |
| 20              | PI/2 BPSK  | 1       | 1         | 23.13                 | 23.28                    | 23.22                  | 24.0                | 0.0      |
| 20              | PI/2 BPSK  | 1       | 53        | 23.29                 | 23.33                    | 23.23                  |                     |          |
| 20              | PI/2 BPSK  | 1       | 104       | 23.42                 | 23.37                    | 23.19                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 0         | 22.62                 | 22.96                    | 22.81                  | 23.5                | 0.5      |
| 20              | PI/2 BPSK  | 50      | 28        | 23.19                 | 23.35                    | 23.31                  | 24.0                | 0.0      |
| 20              | PI/2 BPSK  | 50      | 56        | 22.75                 | 22.90                    | 22.64                  | 23.5                | 0.5      |
| 20              | PI/2 BPSK  | 100     | 0         | 22.71                 | 22.91                    | 22.83                  |                     |          |
| 20              | QPSK       | 1       | 1         | 23.30                 | 23.48                    | 23.32                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 53        | 23.23                 | 23.36                    | 23.30                  |                     |          |
| 20              | QPSK       | 1       | 104       | 23.24                 | 23.42                    | 23.19                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.13                 | 22.45                    | 22.36                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 28        | 23.17                 | 23.45                    | 23.30                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.31                 | 22.38                    | 22.13                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.16                 | 22.37                    | 22.27                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 22.18                 | 22.25                    | 22.40                  | 23.0                | 1.0      |
| 20              | 64QAM      | 1       | 1         | 20.58                 | 20.67                    | 20.94                  | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.51                 | 18.75                    | 18.89                  | 19.5                | 4.5      |
| Channel         |            |         |           | 371000                | 376500                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1857.5                | 1882.5                   | 1907.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 23.20                 | 23.31                    | 23.38                  | 24.0                | 0.0      |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1882.5                   | 1910                   |                     |          |
| 10              | QPSK       | 1       | 1         | 23.05                 | 23.37                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1882.5                   | 1912.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 23.21                 | 23.27                    | 23.18                  | 24.0                | 0.0      |



### n26\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 164800                | 166300                   | 167800                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                 | 23.07                    | 23.01                  |                     |          |
| 20              | PI2 BPSK   | 1       | 53        | 23.08                 | 23.20                    | 23.14                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 104       | 23.14                 | 23.17                    | 23.19                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 0         | 22.82                 | 22.58                    | 22.57                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 26        | 23.08                 | 23.13                    | 23.12                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 22.82                 | 22.79                    | 22.82                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 100     | 0         | 22.53                 | 22.58                    | 22.66                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.18                 | 23.21                    | 23.12                  | 23.0                | 1.0      |
| 20              | QPSK       | 1       | 53        | 23.10                 | 23.12                    | 23.07                  | 23.0                | 1.0      |
| 20              | QPSK       | 1       | 104       | 23.13                 | 23.18                    | 23.10                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 0         | 22.98                 | 22.07                    | 22.10                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 26        | 23.18                 | 23.15                    | 23.12                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 56        | 22.27                 | 22.31                    | 22.32                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.09                 | 22.18                    | 22.15                  | 23.0                | 1.0      |
| 20              | 16QAM      | 1       | 1         | 22.16                 | 22.16                    | 22.18                  | 23.0                | 1.0      |
| 20              | 64QAM      | 1       | 1         | 20.78                 | 20.75                    | 20.69                  | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.23                 | 18.26                    | 18.26                  | 19.5                | 4.5      |
| Channel         |            |         |           | 164300                | 166300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 23.17                 | 23.19                    | 23.01                  | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 23.14                 | 23.11                    | 22.94                  | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.15                 | 23.17                    | 23.04                  | 24.0                | 0.0      |

### n26\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 164800                | 166300                   | 167800                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                 | 23.15                    | 23.12                  |                     |          |
| 20              | PI2 BPSK   | 1       | 53        | 23.10                 | 23.12                    | 23.10                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 104       | 23.16                 | 23.12                    | 23.15                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 0         | 22.58                 | 22.07                    | 22.50                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 26        | 23.07                 | 23.12                    | 23.09                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 56        | 22.70                 | 22.74                    | 22.77                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 100     | 0         | 22.51                 | 22.63                    | 22.57                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.17                    | 23.11                  | 23.0                | 1.0      |
| 20              | QPSK       | 1       | 53        | 23.12                 | 23.15                    | 23.06                  | 23.0                | 1.0      |
| 20              | QPSK       | 1       | 104       | 23.07                 | 23.11                    | 23.09                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 0         | 22.03                 | 22.07                    | 22.03                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 26        | 23.11                 | 23.14                    | 23.08                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 56        | 22.22                 | 22.27                    | 22.20                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.02                 | 22.11                    | 22.02                  | 23.0                | 1.0      |
| 20              | 16QAM      | 1       | 1         | 21.67                 | 21.79                    | 21.70                  | 23.0                | 1.0      |
| 20              | 64QAM      | 1       | 1         | 20.25                 | 20.32                    | 20.26                  | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.72                 | 18.73                    | 18.62                  | 19.5                | 4.5      |
| Channel         |            |         |           | 164300                | 166300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 23.02                 | 23.08                    | 22.86                  | 24.0                | 0.0      |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.89                 | 23.11                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.07                 | 22.97                    | 23.14                  | 24.0                | 0.0      |

### n30\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 462000                |                          |                        | 17.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 15.91                 |                          |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 26        | 15.87                 |                          |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 50        | 15.95                 |                          |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 0         | 15.91                 |                          |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 14        | 15.87                 |                          |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        | 15.93                 |                          |                        | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 50      | 0         | 15.91                 |                          |                        | 17.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 15.98                 |                          |                        | 17.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 15.94                 |                          |                        | 17.0                | 0.0      |
| 10              | QPSK       | 1       | 50        | 15.93                 |                          |                        | 17.0                | 0.0      |
| 10              | QPSK       | 25      | 0         | 15.92                 |                          |                        | 17.0                | 0.0      |
| 10              | QPSK       | 25      | 14        | 15.97                 |                          |                        | 17.0                | 0.0      |
| 10              | QPSK       | 25      | 27        | 15.90                 |                          |                        | 17.0                | 0.0      |
| 10              | QPSK       | 50      | 0         | 15.95                 |                          |                        | 17.0                | 0.0      |
| 10              | 16QAM      | 1       | 1         | 15.88                 |                          |                        | 17.0                | 0.0      |
| 10              | 64QAM      | 1       | 1         | 15.86                 |                          |                        | 17.0                | 0.0      |
| 10              | 256QAM     | 1       | 1         | 15.87                 |                          |                        | 17.0                | 0.0      |
| Channel         |            |         |           | 461000                | 462000                   | 463000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 | 17.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 15.92                 | 15.79                    | 15.91                  | 17.0                | 0.0      |



| n30_Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 462000                |                          |                        | 23.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |                     |          |
| 10              | PI/2 BPSK  | 1       | 1         | 21.96                 |                          |                        |                     |          |
| 10              | PI/2 BPSK  | 1       | 26        | 21.95                 |                          |                        | 22.5                | 0.5      |
| 10              | PI/2 BPSK  | 1       | 50        | 21.92                 |                          |                        |                     |          |
| 10              | PI/2 BPSK  | 25      | 0         | 21.44                 |                          |                        |                     |          |
| 10              | PI/2 BPSK  | 25      | 14        | 21.96                 |                          |                        | 23.0                | 0.0      |
| 10              | PI/2 BPSK  | 25      | 27        | 21.42                 |                          |                        |                     |          |
| 10              | PI/2 BPSK  | 50      | 0         | 21.44                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 1         | 22.00                 |                          |                        | 23.0                | 0.0      |
| 10              | QPSK       | 1       | 26        | 21.96                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 50        | 21.97                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 0         | 20.86                 |                          |                        | 22.0                | 1.0      |
| 10              | QPSK       | 25      | 14        | 21.97                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 27        | 20.98                 |                          |                        |                     |          |
| 10              | QPSK       | 50      | 0         | 20.93                 |                          |                        | 22.0                | 1.0      |
| 10              | 16QAM      | 1       | 1         | 20.85                 |                          |                        |                     |          |
| 10              | 64QAM      | 1       | 1         | 19.30                 |                          |                        |                     |          |
| 10              | 256QAM     | 1       | 1         | 17.37                 |                          |                        | 18.5                | 4.5      |
| Channel         |            |         |           | 461800                | 462000                   | 462200                 |                     |          |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 21.94                 | 21.94                    | 21.89                  | 23.0                | 0.0      |

| n66_Ant 1       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 346000                | 349000                   | 352000                 | 17.5                | 0.0      |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |
| 40              | PI/2 BPSK  | 1       | 1         | 16.57                 | 16.65                    | 16.51                  |                     |          |
| 40              | PI/2 BPSK  | 1       | 108       | 16.68                 | 16.69                    | 16.57                  | 17.0                | 0.5      |
| 40              | PI/2 BPSK  | 1       | 214       | 16.46                 | 16.51                    | 16.43                  |                     |          |
| 40              | PI/2 BPSK  | 108     | 0         | 16.59                 | 16.62                    | 16.53                  |                     |          |
| 40              | PI/2 BPSK  | 108     | 54        | 16.58                 | 16.61                    | 16.58                  | 17.0                | 0.5      |
| 40              | PI/2 BPSK  | 108     | 108       | 16.56                 | 16.66                    | 16.63                  |                     |          |
| 40              | PI/2 BPSK  | 216     | 0         | 16.57                 | 16.67                    | 16.59                  |                     |          |
| 40              | QPSK       | 1       | 1         | 16.70                 | 16.71                    | 16.70                  | 17.5                | 0.0      |
| 40              | QPSK       | 1       | 108       | 16.45                 | 16.54                    | 16.50                  |                     |          |
| 40              | QPSK       | 1       | 214       | 16.41                 | 16.48                    | 16.48                  |                     |          |
| 40              | QPSK       | 108     | 0         | 16.55                 | 16.67                    | 16.65                  | 17.5                | 0.0      |
| 40              | QPSK       | 108     | 54        | 16.67                 | 16.69                    | 16.66                  |                     |          |
| 40              | QPSK       | 108     | 108       | 16.54                 | 16.66                    | 16.65                  |                     |          |
| 40              | QPSK       | 216     | 0         | 16.63                 | 16.64                    | 16.63                  | 17.5                | 0.0      |
| 40              | 16QAM      | 1       | 1         | 16.29                 | 16.27                    | 16.25                  |                     |          |
| 40              | 64QAM      | 1       | 1         | 16.23                 | 16.42                    | 16.22                  |                     |          |
| 40              | 256QAM     | 1       | 1         | 16.24                 | 16.51                    | 16.57                  | 17.5                | 0.0      |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 |                     |          |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |
| 30              | QPSK       | 1       | 1         | 16.66                 | 16.61                    | 16.63                  | 17.5                | 0.0      |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 | 17.5                | 0.0      |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 |                     |          |
| 25              | QPSK       | 1       | 1         | 16.66                 | 16.66                    | 16.70                  |                     |          |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | 17.5                | 0.0      |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |
| 20              | QPSK       | 1       | 1         | 16.66                 | 16.59                    | 16.60                  |                     |          |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | 17.5                | 0.0      |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 16.67                 | 16.70                    | 16.81                  |                     |          |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | 17.5                | 0.0      |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |
| 10              | QPSK       | 1       | 1         | 16.60                 | 16.63                    | 16.66                  |                     |          |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | 17.5                | 0.0      |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 16.59                 | 16.68                    | 16.61                  | 17.5                | 0.0      |

| n66_Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 346000                | 349000                   | 352000                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |
| 40              | PI/2 BPSK  | 1       | 1         | 23.15                 | 23.17                    | 23.08                  |                     |          |
| 40              | PI/2 BPSK  | 1       | 108       | 23.14                 | 23.14                    | 22.99                  | 23.5                | 0.5      |
| 40              | PI/2 BPSK  | 1       | 214       | 22.83                 | 23.12                    | 22.88                  |                     |          |
| 40              | PI/2 BPSK  | 108     | 0         | 22.50                 | 22.62                    | 22.46                  |                     |          |
| 40              | PI/2 BPSK  | 108     | 54        | 22.95                 | 23.13                    | 23.00                  | 23.5                | 0.5      |
| 40              | PI/2 BPSK  | 108     | 108       | 23.15                 | 22.86                    | 22.77                  |                     |          |
| 40              | PI/2 BPSK  | 216     | 0         | 22.80                 | 22.81                    | 22.72                  |                     |          |
| 40              | QPSK       | 1       | 1         | 23.16                 | 23.19                    | 22.89                  | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 108       | 23.15                 | 23.18                    | 22.78                  |                     |          |
| 40              | QPSK       | 1       | 214       | 23.14                 | 23.09                    | 22.86                  |                     |          |
| 40              | QPSK       | 108     | 0         | 22.95                 | 22.16                    | 22.06                  | 24.0                | 1.0      |
| 40              | QPSK       | 108     | 54        | 23.13                 | 23.17                    | 22.97                  |                     |          |
| 40              | QPSK       | 108     | 108       | 22.21                 | 22.36                    | 22.11                  |                     |          |
| 40              | QPSK       | 216     | 0         | 22.21                 | 22.29                    | 22.13                  | 23.0                | 1.0      |
| 40              | 16QAM      | 1       | 1         | 22.64                 | 22.57                    | 22.62                  |                     |          |
| 40              | 64QAM      | 1       | 1         | 20.41                 | 20.57                    | 20.70                  |                     |          |
| 40              | 256QAM     | 1       | 1         | 18.86                 | 18.97                    | 18.88                  | 19.5                | 4.5      |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 |                     |          |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |
| 30              | QPSK       | 1       | 1         | 23.15                 | 23.13                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 |                     |          |
| 25              | QPSK       | 1       | 1         | 23.07                 | 23.18                    | 22.92                  |                     |          |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |
| 20              | QPSK       | 1       | 1         | 23.17                 | 23.11                    | 22.98                  |                     |          |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 23.11                 | 23.14                    | 22.88                  |                     |          |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |
| 10              | QPSK       | 1       | 1         | 23.01                 | 23.14                    | 22.98                  |                     |          |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 23.05                 | 23.07                    | 22.73                  | 24.0                | 0.0      |



| n70_Ant 1       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 340500                |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |
| 15              | PI/2 BPSK  | 1       | 1         |                       | 18.30                    |                        | 19.0                | 0.0      |
| 15              | PI/2 BPSK  | 1       | 40        |                       | 18.33                    |                        |                     |          |
| 15              | PI/2 BPSK  | 1       | 77        |                       | 18.32                    |                        |                     |          |
| 15              | PI/2 BPSK  | 36      | 0         |                       | 18.28                    |                        | 19.0                | 0.0      |
| 15              | PI/2 BPSK  | 36      | 22        |                       | 18.24                    |                        | 19.0                | 0.0      |
| 15              | PI/2 BPSK  | 36      | 43        |                       | 18.19                    |                        | 19.0                | 0.0      |
| 15              | PI/2 BPSK  | 75      | 0         |                       | 18.29                    |                        |                     |          |
| 15              | QPSK       | 1       | 1         |                       | 18.37                    |                        | 19.0                | 0.0      |
| 15              | QPSK       | 1       | 40        |                       | 18.34                    |                        |                     |          |
| 15              | QPSK       | 1       | 77        |                       | 18.21                    |                        |                     |          |
| 15              | QPSK       | 36      | 0         |                       | 18.28                    |                        | 19.0                | 0.0      |
| 15              | QPSK       | 36      | 22        |                       | 18.35                    |                        | 19.0                | 0.0      |
| 15              | QPSK       | 36      | 43        |                       | 18.23                    |                        | 19.0                | 0.0      |
| 15              | QPSK       | 75      | 0         |                       | 18.33                    |                        |                     |          |
| 15              | 16QAM      | 1       | 1         |                       | 18.17                    |                        | 19.0                | 0.0      |
| 15              | 64QAM      | 1       | 1         |                       | 18.31                    |                        | 19.0                | 0.0      |
| 15              | 256QAM     | 1       | 1         |                       | 18.28                    |                        | 19.0                | 0.0      |
| Channel         |            |         |           | 340500                | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |
| 10              | QPSK       | 1       | 1         | 18.29                 | 18.24                    | 18.22                  | 19.0                | 0.0      |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 18.24                 | 18.23                    | 18.22                  | 19.0                | 0.0      |

| n70_Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (db) |
| Channel         |            |         |           | 340500                |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |
| 15              | PI/2 BPSK  | 1       | 1         |                       | 22.33                    |                        | 24.0                | 0.0      |
| 15              | PI/2 BPSK  | 1       | 40        |                       | 22.30                    |                        |                     |          |
| 15              | PI/2 BPSK  | 1       | 77        |                       | 22.26                    |                        |                     |          |
| 15              | PI/2 BPSK  | 36      | 0         |                       | 21.59                    |                        | 23.5                | 0.5      |
| 15              | PI/2 BPSK  | 36      | 22        |                       | 22.17                    |                        | 24.0                | 0.0      |
| 15              | PI/2 BPSK  | 36      | 43        |                       | 21.72                    |                        | 23.5                | 0.5      |
| 15              | PI/2 BPSK  | 75      | 0         |                       | 21.74                    |                        |                     |          |
| 15              | QPSK       | 1       | 1         |                       | 22.35                    |                        | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 40        |                       | 22.32                    |                        |                     |          |
| 15              | QPSK       | 1       | 77        |                       | 22.25                    |                        |                     |          |
| 15              | QPSK       | 36      | 0         |                       | 21.14                    |                        | 23.0                | 1.0      |
| 15              | QPSK       | 36      | 22        |                       | 22.32                    |                        | 24.0                | 0.0      |
| 15              | QPSK       | 36      | 43        |                       | 21.24                    |                        | 23.0                | 1.0      |
| 15              | QPSK       | 75      | 0         |                       | 21.24                    |                        |                     |          |
| 15              | 16QAM      | 1       | 1         |                       | 21.10                    |                        | 23.0                | 1.0      |
| 15              | 64QAM      | 1       | 1         |                       | 20.00                    |                        | 21.5                | 2.5      |
| 15              | 256QAM     | 1       | 1         |                       | 17.82                    |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 340500                | 340500                   | 341000                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |
| 10              | QPSK       | 1       | 1         | 22.31                 | 22.26                    | 22.18                  | 24.0                | 0.0      |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 22.07                 | 22.29                    | 22.09                  | 24.0                | 0.0      |



| n71_Ant 0       |            |         |           |                          |                             |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 134600                   | 136100                      | 137600                    |                        |             |  |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.72                    | 22.75                       | 22.79                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 1       | 53        | 22.71                    | 22.65                       | 22.75                     |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.73                    | 22.80                       | 22.80                     |                        |             |  |
| 20              | PI/2 BPSK  | 50      | 0         | 21.87                    | 22.26                       | 22.15                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 50      | 26        | 22.72                    | 22.74                       | 22.78                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 56        | 21.78                    | 22.14                       | 22.42                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 100     | 0         | 21.76                    | 22.22                       | 22.27                     |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.76                    | 22.84                       | 22.76                     |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.66                    | 22.68                       | 22.65                     | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.71                    | 22.79                       | 22.74                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 21.65                    | 21.76                       | 21.73                     |                        |             |  |
| 20              | QPSK       | 50      | 26        | 22.73                    | 22.81                       | 22.74                     |                        |             |  |
| 20              | QPSK       | 50      | 56        | 21.57                    | 21.66                       | 21.68                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.69                    | 21.77                       | 21.76                     |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 21.60                    | 21.65                       | 21.67                     | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 20.29                    | 20.35                       | 20.38                     | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 17.90                    | 17.95                       | 17.98                     | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 134100                   | 136100                      | 138100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.74                    | 22.69                       | 22.66                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 668                      | 680.5                       | 693                       |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.64                    | 22.73                       | 22.59                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                       | 695.5                     |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.72                    | 22.76                       | 22.73                     | 24.0                   | 0.0         |  |

| n71_Ant 1       |            |         |           |                          |                             |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 134600                   | 136100                      | 137600                    |                        |             |  |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.76                    | 22.83                       | 22.79                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 1       | 53        | 22.69                    | 22.81                       | 22.81                     |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.69                    | 22.74                       | 22.72                     |                        |             |  |
| 20              | PI/2 BPSK  | 50      | 0         | 22.37                    | 22.35                       | 22.29                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 50      | 26        | 22.70                    | 22.75                       | 22.73                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 56        | 22.19                    | 22.28                       | 22.16                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 100     | 0         | 22.34                    | 22.37                       | 22.25                     |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.80                    | 22.84                       | 22.79                     |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.67                    | 22.76                       | 22.73                     | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.78                    | 22.82                       | 22.78                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 21.76                    | 21.76                       | 21.74                     |                        |             |  |
| 20              | QPSK       | 50      | 26        | 22.76                    | 22.80                       | 22.77                     |                        |             |  |
| 20              | QPSK       | 50      | 56        | 21.72                    | 21.71                       | 21.65                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.67                    | 21.76                       | 21.69                     |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 21.65                    | 21.75                       | 21.77                     | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 19.98                    | 19.98                       | 19.88                     | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 18.52                    | 18.53                       | 18.53                     | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 134100                   | 136100                      | 138100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.78                    | 22.76                       | 22.80                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 668                      | 680.5                       | 693                       |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.67                    | 22.68                       | 22.71                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                       | 695.5                     |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.71                    | 22.82                       | 22.67                     | 24.0                   | 0.0         |  |



### n38\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 518004                      | 519000                         | 519998                       | 16.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2590.02                     | 2595                           | 2599.98                      |                        |             |
| 40              | P12 BPSK   | 1       | 1         | 14.45                       | 14.67                          | 14.36                        |                        |             |
| 40              | P12 BPSK   | 1       | 53        | 14.37                       | 14.34                          | 14.38                        |                        |             |
| 40              | P12 BPSK   | 1       | 104       | 14.75                       | 14.62                          | 14.55                        | 16.0                   | 0.0         |
| 40              | P12 BPSK   | 50      | 0         | 14.67                       | 14.70                          | 14.58                        |                        |             |
| 40              | P12 BPSK   | 50      | 28        | 14.89                       | 14.43                          | 14.54                        |                        |             |
| 40              | P12 BPSK   | 50      | 56        | 14.59                       | 14.46                          | 14.56                        |                        |             |
| 40              | P12 BPSK   | 100     | 0         | 14.70                       | 14.67                          | 14.58                        | 16.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 14.68                       | 14.76                          | 14.60                        |                        |             |
| 40              | QPSK       | 1       | 53        | 14.46                       | 14.56                          | 14.59                        |                        |             |
| 40              | QPSK       | 1       | 104       | 14.63                       | 14.73                          | 14.65                        |                        |             |
| 40              | QPSK       | 50      | 0         | 14.58                       | 14.60                          | 14.64                        | 16.0                   | 0.0         |
| 40              | QPSK       | 50      | 28        | 14.65                       | 14.73                          | 14.67                        |                        |             |
| 40              | QPSK       | 50      | 56        | 14.63                       | 14.70                          | 14.42                        |                        |             |
| 40              | QPSK       | 100     | 0         | 14.63                       | 14.70                          | 14.58                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 14.55                       | 14.69                          | 14.44                        | 16.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 14.48                       | 14.42                          | 14.38                        |                        |             |
| 40              | 256QAM     | 1       | 1         | 14.41                       | 14.39                          | 14.57                        |                        |             |
| Channel         |            |         |           | 517002                      | 519000                         | 520998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2585.01                     | 2595                           | 2604.99                      | 16.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 14.62                       | 14.59                          | 14.41                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 518504                      | 519000                         | 521000                       |                        |             |
| Frequency (MHz) |            |         |           | 2592.52                     | 2595                           | 2607.48                      |                        |             |
| 25              | QPSK       | 1       | 1         | 14.48                       | 14.57                          | 14.56                        |                        |             |
| Channel         |            |         |           | 518000                      | 519000                         | 522000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         | 16.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 14.53                       | 14.54                          | 14.46                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 518502                      | 519000                         | 522000                       |                        |             |
| Frequency (MHz) |            |         |           | 2577.51                     | 2595                           | 2612.49                      |                        |             |
| 15              | QPSK       | 1       | 1         | 14.68                       | 14.67                          | 14.66                        |                        |             |
| Channel         |            |         |           | 515004                      | 519000                         | 522998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2575.02                     | 2595                           | 2614.98                      | 16.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 14.51                       | 14.55                          | 14.64                        | 16.0                   | 0.0         |

### n41\_Ant 0(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 509202                      | 518598                         | 528000                       | 20.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 18.46                       | 18.61                          | 18.39                        |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 18.58                       | 18.57                          | 18.47                        |                        |             |
| 100             | P12 BPSK   | 1       | 271       | 18.42                       | 18.37                          | 18.49                        | 20.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 0         | 18.34                       | 18.60                          | 18.57                        |                        |             |
| 100             | P12 BPSK   | 135     | 69        | 18.62                       | 18.55                          | 18.56                        |                        |             |
| 100             | P12 BPSK   | 135     | 138       | 18.41                       | 18.62                          | 18.61                        |                        |             |
| 100             | P12 BPSK   | 270     | 0         | 18.42                       | 18.61                          | 18.54                        | 20.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 18.61                       | 18.64                          | 18.59                        |                        |             |
| 100             | QPSK       | 1       | 137       | 18.52                       | 18.54                          | 18.45                        |                        |             |
| 100             | QPSK       | 1       | 271       | 18.52                       | 18.52                          | 18.45                        |                        |             |
| 100             | QPSK       | 135     | 0         | 18.57                       | 18.55                          | 18.55                        | 20.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 18.59                       | 18.62                          | 18.59                        |                        |             |
| 100             | QPSK       | 135     | 138       | 18.44                       | 18.57                          | 18.44                        |                        |             |
| 100             | QPSK       | 270     | 0         | 18.54                       | 18.60                          | 18.50                        |                        |             |
| 100             | 16QAM      | 1       | 1         | 18.53                       | 18.55                          | 18.49                        | 20.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 18.47                       | 18.59                          | 18.62                        |                        |             |
| 100             | 256QAM     | 1       | 1         | 18.55                       | 18.60                          | 18.59                        |                        |             |
| Channel         |            |         |           | 508200                      | 518598                         | 528998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      | 20.0                   | 0.0         |
| 90              | QPSK       | 1       | 1         | 18.48                       | 18.44                          | 18.24                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 507204                      | 518598                         | 529998                       |                        |             |
| Frequency (MHz) |            |         |           | 2538.02                     | 2592.99                        | 2649.98                      |                        |             |
| 80              | QPSK       | 1       | 1         | 18.24                       | 18.48                          | 18.36                        |                        |             |
| Channel         |            |         |           | 506202                      | 518598                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         | 20.0                   | 0.0         |
| 70              | QPSK       | 1       | 1         | 18.36                       | 18.37                          | 18.40                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 505200                      | 518598                         | 531998                       |                        |             |
| Frequency (MHz) |            |         |           | 2528                        | 2592.99                        | 2659.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 18.18                       | 18.63                          | 18.18                        |                        |             |
| Channel         |            |         |           | 504204                      | 518598                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      | 20.0                   | 0.0         |
| 50              | QPSK       | 1       | 1         | 18.53                       | 18.42                          | 18.47                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 503202                      | 518598                         | 534000                       |                        |             |
| Frequency (MHz) |            |         |           | 2518.01                     | 2592.99                        | 2670                         |                        |             |
| 40              | QPSK       | 1       | 1         | 18.40                       | 18.47                          | 18.30                        |                        |             |
| Channel         |            |         |           | 502200                      | 518598                         | 534998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      | 20.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 18.52                       | 18.58                          | 18.24                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 501204                      | 518598                         | 535998                       |                        |             |
| Frequency (MHz) |            |         |           | 2508.02                     | 2592.99                        | 2679.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 18.29                       | 18.38                          | 18.20                        |                        |             |
| Channel         |            |         |           | 500700                      | 518598                         | 536498                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      | 20.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 18.42                       | 18.58                          | 18.45                        | 20.0                   | 0.0         |
| Channel         |            |         |           | 500202                      | 518598                         | 537000                       |                        |             |
| Frequency (MHz) |            |         |           | 2501.01                     | 2592.99                        | 2685                         |                        |             |
| 10              | QPSK       | 1       | 1         | 18.33                       | 18.39                          | 18.18                        |                        |             |

### n41(HPUE)\_Ant 0(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 509202                      | 518598                         | 528000                       | 23.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 21.69                       | 21.41                          | 21.34                        |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 21.62                       | 21.65                          | 21.47                        |                        |             |
| 100             | P12 BPSK   | 1       | 271       | 21.41                       | 21.51                          | 21.31                        | 23.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 0         | 21.59                       | 21.51                          | 21.47                        |                        |             |
| 100             | P12 BPSK   | 135     | 69        | 21.37                       | 21.41                          | 21.24                        |                        |             |
| 100             | P12 BPSK   | 135     | 138       | 21.35                       | 21.39                          | 21.27                        |                        |             |
| 100             | P12 BPSK   | 270     | 0         | 21.49                       | 21.65                          | 21.30                        | 23.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 21.66                       | 21.72                          | 21.67                        |                        |             |
| 100             | QPSK       | 1       | 137       | 21.46                       | 21.67                          | 21.38                        |                        |             |
| 100             | QPSK       | 1       | 271       | 21.28                       | 21.70                          | 21.53                        |                        |             |
| 100             | QPSK       | 135     | 0         | 21.46                       | 21.65                          | 21.51                        | 23.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 21.64                       | 21.70                          | 21.66                        |                        |             |
| 100             | QPSK       | 135     | 138       | 21.24                       | 21.63                          | 21.34                        |                        |             |
| 100             | QPSK       | 270     | 0         | 21.55                       | 21.68                          | 21.26                        |                        |             |
| 100             | 16QAM      | 1       | 1         | 21.33                       | 21.56                          | 21.21                        | 23.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 21.56                       | 21.57                          | 21.19                        |                        |             |
| 100             | 256QAM     | 1       | 1         | 20.70                       | 20.81                          | 20.71                        |                        |             |
| Channel         |            |         |           | 508200                      | 518598                         | 528998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      | 23.0                   | 0.0         |
| 90              | QPSK       | 1       | 1         | 21.56                       | 21.58                          | 21.51                        | 23.0                   | 0.0         |
| Channel         |            |         |           | 507204                      | 518598                         | 529998                       |                        |             |
| Frequency (MHz) |            |         |           | 2538.02                     | 2592.99                        | 2649.98                      |                        |             |
| 80              | QPSK       | 1       | 1         | 21.55                       | 21.52                          | 21.50                        |                        |             |
| Channel         |            |         |           | 506202                      | 518598                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         | 23.0                   | 0.0         |
| 70              | QPSK       | 1       | 1         | 21.39                       | 21.69                          | 21.49                        | 23.0                   | 0.0         |
| Channel         |            |         |           | 505200                      | 518598                         | 531998                       |                        |             |
| Frequency (MHz) |            |         |           | 2528                        | 2592.99                        | 2659.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 21.40                       | 21.62                          | 21.52                        |                        |             |
| Channel         |            |         |           | 504204                      | 518598                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      | 23.0                   | 0.0         |
| 50              | QPSK       | 1       | 1         | 21.58                       | 21.52                          | 21.22                        | 23.0                   | 0.0         |
| Channel         |            |         |           | 503202                      | 518598                         | 534000                       |                        |             |
| Frequency (MHz) |            |         |           | 2518.01                     | 2592.99                        | 2670                         |                        |             |
| 40              | QPSK       | 1       | 1         | 21.80                       | 21.68                          | 21.29                        |                        |             |
| Channel         |            |         |           | 502200                      | 518598                         | 534998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      | 23.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 21.49                       | 21.48                          | 21.22                        | 23.0                   | 0.0         |
| Channel         |            |         |           | 501204                      | 518598                         | 535998                       |                        |             |
| Frequency (MHz) |            |         |           | 2508.02                     | 2592.99                        | 2679.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 21.59                       | 21.45                          | 21.54                        |                        |             |
| Channel         |            |         |           | 500700                      | 518598                         | 536498                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      | 23.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 21.37                       | 21.61                          | 21.37                        | 23.0                   | 0.0         |
| Channel         |            |         |           | 500202                      | 518598                         | 537000                       |                        |             |



| n41_Ant 1(FCC)  |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 | 16.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100             | PI2 BPSK   | 1       | 1         | 14.67                 | 14.74                    | 14.70                  | 16.0                | 0.0      |  |
| 100             | PI2 BPSK   | 1       | 137       | 14.57                 | 14.65                    | 14.56                  |                     |          |  |
| 100             | PI2 BPSK   | 1       | 271       | 14.55                 | 14.67                    | 14.65                  |                     |          |  |
| 100             | PI2 BPSK   | 135     | 0         | 14.54                 | 14.64                    | 14.62                  |                     |          |  |
| 100             | PI2 BPSK   | 135     | 69        | 14.68                 | 14.68                    | 14.55                  | 16.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 138       | 14.63                 | 14.65                    | 14.63                  | 16.0                | 0.0      |  |
| 100             | PI2 BPSK   | 270     | 0         | 14.42                 | 14.55                    | 14.52                  |                     |          |  |
| 100             | QPSK       | 1       | 1         | 14.75                 | 14.77                    | 14.73                  | 16.0                | 0.0      |  |
| 100             | QPSK       | 1       | 137       | 14.68                 | 14.72                    | 14.66                  |                     |          |  |
| 100             | QPSK       | 1       | 271       | 14.60                 | 14.65                    | 14.58                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 14.57                 | 14.60                    | 14.50                  |                     |          |  |
| 100             | QPSK       | 135     | 69        | 14.72                 | 14.74                    | 14.70                  | 16.0                | 0.0      |  |
| 100             | QPSK       | 135     | 138       | 14.47                 | 14.58                    | 14.51                  | 16.0                | 0.0      |  |
| 100             | QPSK       | 270     | 0         | 14.54                 | 14.72                    | 14.46                  |                     |          |  |
| 100             | 8QAM       | 1       | 1         | 14.63                 | 14.64                    | 14.56                  | 16.0                | 0.0      |  |
| 100             | 8QAM       | 1       | 1         | 14.54                 | 14.58                    | 14.48                  | 16.0                | 0.0      |  |
| 100             | 25QAM      | 1       | 1         | 13.78                 | 13.85                    | 13.76                  | 14.5                | 1.5      |  |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                | 16.0                | 0.0      |  |
| 90              | QPSK       | 1       | 1         | 14.67                 | 14.69                    | 14.68                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518598                   | 529996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2648.99                | 16.0                | 0.0      |  |
| 80              | QPSK       | 1       | 1         | 14.60                 | 14.74                    | 14.61                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   | 16.0                | 0.0      |  |
| 70              | QPSK       | 1       | 1         | 14.69                 | 14.65                    | 14.62                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                | 16.0                | 0.0      |  |
| 60              | QPSK       | 1       | 1         | 14.58                 | 14.67                    | 14.66                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                | 16.0                | 0.0      |  |
| 50              | QPSK       | 1       | 1         | 14.75                 | 14.65                    | 14.73                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | 16.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 14.57                 | 14.67                    | 14.71                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | 16.0                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 14.65                 | 14.76                    | 14.61                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                | 16.0                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 14.66                 | 14.66                    | 14.72                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | 16.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 14.71                 | 14.71                    | 14.69                  | 16.0                | 0.0      |  |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | 16.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 14.59                 | 14.74                    | 14.60                  | 16.0                | 0.0      |  |

| n41(HPUE)_Ant 1(FCC) |            |         |           |                       |                          |                        |                     |          |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |            |         |           | 509202                | 518598                   | 528000                 | 19.0                | 0.0      |  |
| Frequency (MHz)      |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 1         | 17.35                 | 17.49                    | 17.49                  | 19.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 1       | 137       | 17.55                 | 17.63                    | 17.51                  |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 271       | 17.48                 | 17.52                    | 17.41                  |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 0         | 17.51                 | 17.56                    | 17.47                  |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 69        | 17.55                 | 17.55                    | 17.55                  | 19.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 135     | 138       | 17.41                 | 17.53                    | 17.43                  | 19.0                | 0.0      |  |
| 100                  | PI2 BPSK   | 270     | 0         | 17.60                 | 17.54                    | 17.52                  |                     |          |  |
| 100                  | QPSK       | 1       | 1         | 17.67                 | 17.70                    | 17.62                  | 19.0                | 0.0      |  |
| 100                  | QPSK       | 1       | 137       | 17.60                 | 17.61                    | 17.56                  |                     |          |  |
| 100                  | QPSK       | 1       | 271       | 17.45                 | 17.54                    | 17.48                  |                     |          |  |
| 100                  | QPSK       | 135     | 0         | 17.43                 | 17.56                    | 17.44                  |                     |          |  |
| 100                  | QPSK       | 135     | 69        | 17.63                 | 17.68                    | 17.60                  | 19.0                | 0.0      |  |
| 100                  | QPSK       | 135     | 138       | 17.49                 | 17.51                    | 17.49                  | 19.0                | 0.0      |  |
| 100                  | QPSK       | 270     | 0         | 17.42                 | 17.66                    | 17.41                  |                     |          |  |
| 100                  | 16QAM      | 1       | 1         | 17.48                 | 17.50                    | 17.37                  | 19.0                | 0.0      |  |
| 100                  | 64QAM      | 1       | 1         | 17.34                 | 17.43                    | 17.29                  | 19.0                | 0.0      |  |
| 100                  | 256QAM     | 1       | 1         | 17.64                 | 17.66                    | 17.54                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2541                  | 2592.99                  | 2644.98                | 19.0                | 0.0      |  |
| 90                   | QPSK       | 1       | 1         | 17.59                 | 17.59                    | 17.59                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 507204                | 518598                   | 529996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2536.02               | 2592.99                  | 2649.99                | 19.0                | 0.0      |  |
| 80                   | QPSK       | 1       | 1         | 17.59                 | 17.62                    | 17.59                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2531.01               | 2592.99                  | 2655                   | 19.0                | 0.0      |  |
| 70                   | QPSK       | 1       | 1         | 17.55                 | 17.64                    | 17.49                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2526                  | 2592.99                  | 2659.98                | 19.0                | 0.0      |  |
| 60                   | QPSK       | 1       | 1         | 17.64                 | 17.61                    | 17.55                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2521.02               | 2592.99                  | 2664.99                | 19.0                | 0.0      |  |
| 50                   | QPSK       | 1       | 1         | 17.61                 | 17.63                    | 17.52                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2516.01               | 2592.99                  | 2670                   | 19.0                | 0.0      |  |
| 40                   | QPSK       | 1       | 1         | 17.66                 | 17.66                    | 17.60                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2511                  | 2592.99                  | 2674.98                | 19.0                | 0.0      |  |
| 30                   | QPSK       | 1       | 1         | 17.64                 | 17.62                    | 17.53                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2506.02               | 2592.99                  | 2679.99                | 19.0                | 0.0      |  |
| 20                   | QPSK       | 1       | 1         | 17.52                 | 17.64                    | 17.62                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2503.5                | 2592.99                  | 2682.48                | 19.0                | 0.0      |  |
| 15                   | QPSK       | 1       | 1         | 17.59                 | 17.60                    | 17.60                  | 19.0                | 0.0      |  |
| Channel              |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2501.01               | 2592.99                  | 2685                   | 19.0                | 0.0      |  |
| 10                   | QPSK       | 1       | 1         | 17.58                 | 17.63                    | 17.50                  | 19.0                | 0.0      |  |

| n41_Ant 2(FCC)  |            |         |           |                          |                             |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 509202                   | 518598                      | 528000                    |                        |             |  |
| Frequency (MHz) |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                        |             |  |
| 100             | PI2 BPSK   | 1       | 1         | 22.84                    | 22.84                       | 22.75                     | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 1       | 137       | 22.80                    | 22.80                       | 22.70                     |                        |             |  |
| 100             | PI2 BPSK   | 1       | 271       | 22.81                    | 22.76                       | 22.72                     |                        |             |  |
| 100             | PI2 BPSK   | 135     | 0         | 22.82                    | 22.74                       | 22.67                     |                        |             |  |
| 100             | PI2 BPSK   | 135     | 69        | 22.82                    | 22.83                       | 22.74                     | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 135     | 138       | 22.80                    | 22.73                       | 22.63                     | 24.0                   | 0.0         |  |
| 100             | PI2 BPSK   | 270     | 0         | 22.78                    | 22.75                       | 22.78                     |                        |             |  |
| 100             | QPSK       | 1       | 1         | 22.86                    | 22.88                       | 22.80                     | 24.0                   | 0.0         |  |
| 100             | QPSK       | 1       | 137       | 22.82                    | 22.76                       | 22.76                     |                        |             |  |
| 100             | QPSK       | 1       | 271       | 22.77                    | 22.83                       | 22.77                     |                        |             |  |
| 100             | QPSK       | 135     | 0         | 22.76                    | 22.85                       | 22.70                     |                        |             |  |
| 100             | QPSK       | 135     | 69        | 22.83                    | 22.85                       | 22.78                     | 24.0                   | 0.0         |  |
| 100             | QPSK       | 135     | 138       | 22.82                    | 22.71                       | 22.72                     | 24.0                   | 0.0         |  |
| 100             | QPSK       | 270     | 0         | 22.80                    | 22.84                       | 22.78                     |                        |             |  |
| 100             | 16QAM      | 1       | 1         | 22.81                    | 22.78                       | 22.79                     | 24.0                   | 0.0         |  |
| 100             | 64QAM      | 1       | 1         | 22.78                    | 22.79                       | 22.71                     | 24.0                   | 0.0         |  |
| 100             | 256QAM     | 1       | 1         | 21.35                    | 21.31                       | 21.25                     | 22.5                   | 1.5         |  |
| Channel         |            |         |           | 505200                   | 518598                      | 535998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2541                     | 2592.99                     | 2644.98                   | 24.0                   |             |  |
| 90              | QPSK       | 1       | 1         | 22.77                    | 22.87                       | 22.67                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 507204                   | 518598                      | 529998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2538.02                  | 2592.99                     | 2643.99                   | 24.0                   |             |  |
| 80              | QPSK       | 1       | 1         | 22.69                    | 22.63                       | 22.59                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 506202                   | 518598                      | 531000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2531.01                  | 2592.99                     | 2655                      | 24.0                   |             |  |
| 70              | QPSK       | 1       | 1         | 22.49                    | 22.62                       | 22.73                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 505200                   | 518598                      | 531998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2526                     | 2592.99                     | 2659.98                   | 24.0                   |             |  |
| 60              | QPSK       | 1       | 1         | 22.65                    | 22.55                       | 22.47                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 505204                   | 518598                      | 533998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2521.02                  | 2592.99                     | 2644.99                   | 24.0                   |             |  |
| 50              | QPSK       | 1       | 1         | 22.74                    | 22.86                       | 22.82                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 503202                   | 518598                      | 534000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2516.01                  | 2592.99                     | 2670                      | 24.0                   |             |  |
| 40              | QPSK       | 1       | 1         | 22.80                    | 22.70                       | 22.71                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502200                   | 518598                      | 531998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2511                     | 2592.99                     | 2674.98                   | 24.0                   |             |  |
| 30              | QPSK       | 1       | 1         | 22.83                    | 22.65                       | 22.78                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501204                   | 518598                      | 535998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2506.02                  | 2592.99                     | 2679.99                   | 24.0                   |             |  |
| 20              | QPSK       | 1       | 1         | 22.48                    | 22.72                       | 22.67                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500700                   | 518598                      | 536498                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2493.1                   | 2592.99                     | 2684.98                   | 24.0                   |             |  |
| 15              | QPSK       | 1       | 1         | 22.48                    | 22.50                       | 22.77                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500202                   | 518598                      | 537000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2501.01                  | 2592.99                     | 2685                      | 24.0                   |             |  |
| 10              | QPSK       | 1       | 1         | 22.72                    | 22.77                       | 22.57                     | 24.0                   | 0.0         |  |



| n41(HPUE)_Ant 2(FCC) |            |         |           |                             |                                |                              |                        |             |
|----------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel              |            |         |           | 509202                      | 518598                         | 528000                       | 27.0                   | 0.0         |
| Frequency (MHz)      |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |
| 100                  | PI2 BPSK   | 1       | 1         | 25.79                       | 25.83                          | 25.74                        | 26.5                   | 0.5         |
| 100                  | PI2 BPSK   | 1       | 137       | 25.72                       | 25.77                          | 25.71                        |                        |             |
| 100                  | PI2 BPSK   | 1       | 271       | 25.74                       | 25.74                          | 25.70                        | 27.0                   | 0.0         |
| 100                  | PI2 BPSK   | 135     | 0         | 25.46                       | 25.31                          | 25.20                        |                        |             |
| 100                  | PI2 BPSK   | 135     | 69        | 25.77                       | 25.79                          | 25.70                        | 26.5                   | 0.5         |
| 100                  | PI2 BPSK   | 135     | 138       | 25.41                       | 25.33                          | 25.16                        |                        |             |
| 100                  | PI2 BPSK   | 270     | 0         | 25.38                       | 25.27                          | 25.22                        | 27.0                   | 0.0         |
| 100                  | QPSK       | 1       | 1         | 25.63                       | 25.65                          | 25.76                        |                        |             |
| 100                  | QPSK       | 1       | 137       | 25.78                       | 25.80                          | 25.65                        | 27.0                   | 0.0         |
| 100                  | QPSK       | 1       | 271       | 25.72                       | 25.83                          | 25.75                        |                        |             |
| 100                  | QPSK       | 135     | 0         | 24.69                       | 24.85                          | 24.63                        | 27.0                   | 0.0         |
| 100                  | QPSK       | 135     | 69        | 25.79                       | 25.83                          | 25.74                        |                        |             |
| 100                  | QPSK       | 135     | 138       | 24.66                       | 24.82                          | 24.80                        | 26.0                   | 1.0         |
| 100                  | QPSK       | 270     | 0         | 24.69                       | 24.84                          | 24.83                        |                        |             |
| 100                  | 16QAM      | 1       | 1         | 24.36                       | 24.36                          | 24.37                        | 24.5                   | 2.5         |
| 100                  | 16QAM      | 1       | 1         | 23.19                       | 23.32                          | 23.12                        |                        |             |
| 100                  | 256QAM     | 1       | 1         | 21.38                       | 21.46                          | 21.29                        | 22.5                   | 4.5         |
| Channel              |            |         |           | 508200                      | 518598                         | 528996                       | 27.0                   | 0.0         |
| Frequency (MHz)      |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |
| 90                   | QPSK       | 1       | 1         | 25.66                       | 25.73                          | 25.78                        | 27.0                   | 0.0         |
| Channel              |            |         |           | 507204                      | 518598                         | 529996                       |                        |             |
| Frequency (MHz)      |            |         |           | 2638.02                     | 2592.99                        | 2649.99                      | 27.0                   | 0.0         |
| 80                   | QPSK       | 1       | 1         | 25.42                       | 25.61                          | 25.82                        |                        |             |
| Channel              |            |         |           | 506202                      | 518598                         | 531000                       | 27.0                   | 0.0         |
| Frequency (MHz)      |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |
| 70                   | QPSK       | 1       | 1         | 25.62                       | 25.68                          | 25.55                        | 27.0                   | 0.0         |
| Channel              |            |         |           | 505200                      | 518598                         | 531996                       |                        |             |
| Frequency (MHz)      |            |         |           | 2626                        | 2592.99                        | 2659.98                      | 27.0                   | 0.0         |
| 60                   | QPSK       | 1       | 1         | 25.71                       | 25.59                          | 25.66                        |                        |             |
| Channel              |            |         |           | 504204                      | 518598                         | 532998                       | 27.0                   | 0.0         |
| Frequency (MHz)      |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |
| 50                   | QPSK       | 1       | 1         | 25.47                       | 25.69                          | 25.55                        | 27.0                   | 0.0         |
| Channel              |            |         |           | 503202                      | 518598                         | 534000                       |                        |             |
| Frequency (MHz)      |            |         |           | 2618.01                     | 2592.99                        | 2670                         | 27.0                   | 0.0         |
| 40                   | QPSK       | 1       | 1         | 25.38                       | 25.59                          | 25.62                        |                        |             |
| Channel              |            |         |           | 502200                      | 518598                         | 534996                       | 27.0                   | 0.0         |
| Frequency (MHz)      |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |
| 30                   | QPSK       | 1       | 1         | 25.42                       | 25.70                          | 25.84                        | 27.0                   | 0.0         |
| Channel              |            |         |           | 501204                      | 518598                         | 535998                       |                        |             |
| Frequency (MHz)      |            |         |           | 2608.02                     | 2592.99                        | 2679.99                      | 27.0                   | 0.0         |
| 20                   | QPSK       | 1       | 1         | 25.42                       | 25.80                          | 25.70                        |                        |             |
| Channel              |            |         |           | 500700                      | 518598                         | 536496                       | 27.0                   | 0.0         |
| Frequency (MHz)      |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      |                        |             |
| 15                   | QPSK       | 1       | 1         | 25.67                       | 25.46                          | 25.61                        | 27.0                   | 0.0         |
| Channel              |            |         |           | 500202                      | 518598                         | 537000                       |                        |             |
| Frequency (MHz)      |            |         |           | 2601.01                     | 2592.99                        | 2685                         | 27.0                   | 0.0         |
| 10                   | QPSK       | 1       | 1         | 25.73                       | 25.50                          | 25.69                        |                        |             |

| n41_Ant 4(FCC)  |            |         |           |                             |                                |                              |                        |             |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 509202                      | 518598                         | 528000                       | 18.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 17.02                       | 17.06                          | 17.05                        | 18.0                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 17.01                       | 17.07                          | 17.02                        |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 16.98                       | 16.99                          | 16.91                        | 18.0                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 0         | 16.87                       | 16.95                          | 16.82                        |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 17.03                       | 17.04                          | 17.02                        | 18.0                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 16.80                       | 16.91                          | 16.80                        |                        |             |
| 100             | PI2 BPSK   | 270     | 0         | 16.81                       | 16.90                          | 16.81                        | 18.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 17.06                       | 17.14                          | 17.02                        |                        |             |
| 100             | QPSK       | 1       | 137       | 16.86                       | 16.90                          | 16.89                        | 18.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 16.97                       | 17.03                          | 17.01                        |                        |             |
| 100             | QPSK       | 135     | 0         | 16.86                       | 16.93                          | 16.84                        | 18.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 17.03                       | 17.11                          | 16.99                        |                        |             |
| 100             | QPSK       | 135     | 138       | 16.83                       | 16.85                          | 16.81                        | 18.0                   | 0.0         |
| 100             | QPSK       | 270     | 0         | 16.81                       | 17.10                          | 16.80                        |                        |             |
| 100             | 16QAM      | 1       | 1         | 16.77                       | 16.91                          | 16.74                        | 18.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 16.59                       | 16.77                          | 16.74                        |                        |             |
| 100             | 256QAM     | 1       | 1         | 16.86                       | 17.03                          | 16.82                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 508200                      | 518598                         | 528996                       | 18.0                   | MPR         |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |
| 90              | QPSK       | 1       | 1         | 17.00                       | 17.03                          | 17.07                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 507204                      | 518598                         | 529996                       |                        |             |
| Frequency (MHz) |            |         |           | 2638.02                     | 2592.99                        | 2649.99                      | 18.0                   | 0.0         |
| 80              | QPSK       | 1       | 1         | 16.92                       | 17.03                          | 17.11                        |                        |             |
| Channel         |            |         |           | 506202                      | 518598                         | 531000                       | 18.0                   | MPR         |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |
| 70              | QPSK       | 1       | 1         | 16.99                       | 17.10                          | 17.11                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 505200                      | 518598                         | 531996                       |                        |             |
| Frequency (MHz) |            |         |           | 2626                        | 2592.99                        | 2659.98                      | 18.0                   | MPR         |
| 60              | QPSK       | 1       | 1         | 17.00                       | 17.13                          | 17.09                        |                        |             |
| Channel         |            |         |           | 504204                      | 518598                         | 532998                       | 18.0                   | MPR         |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |
| 50              | QPSK       | 1       | 1         | 16.93                       | 17.10                          | 17.10                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 503202                      | 518598                         | 534000                       |                        | MPR         |
| Frequency (MHz) |            |         |           | 2618.01                     | 2592.99                        | 2670                         |                        |             |
| 40              | QPSK       | 1       | 1         | 16.92                       | 17.13                          | 17.12                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 502200                      | 518598                         | 534996                       |                        | MPR         |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |
| 30              | QPSK       | 1       | 1         | 17.01                       | 17.11                          | 17.10                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 501204                      | 518598                         | 535998                       |                        | MPR         |
| Frequency (MHz) |            |         |           | 2608.02                     | 2592.99                        | 2679.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 17.00                       | 17.09                          | 17.10                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 500700                      | 518598                         | 536496                       |                        | MPR         |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 17.04                       | 17.07                          | 17.02                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 500202                      | 518598                         | 537000                       |                        | MPR         |
| Frequency (MHz) |            |         |           | 2601.01                     | 2592.99                        | 2685                         |                        |             |
| 10              | QPSK       | 1       | 1         | 16.94                       | 17.05                          | 17.04                        | 18.0                   | 0.0         |

| n41(HPUE)_Ant 4(FCC) |            |         |           |                       |                          |                        |                     |          |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel              |            |         |           | 509202                | 518598                   | 528000                 | 21.0                | 0.0      |
| Frequency (MHz)      |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100                  | PI2 BPSK   | 1       | 1         | 20.09                 | 20.05                    | 20.01                  | 21.0                | 0.0      |
| 100                  | PI2 BPSK   | 1       | 137       | 19.89                 | 19.96                    | 19.87                  |                     |          |
| 100                  | PI2 BPSK   | 1       | 271       | 20.02                 | 20.06                    | 19.94                  | 21.0                | 0.0      |
| 100                  | PI2 BPSK   | 135     | 0         | 19.93                 | 19.99                    | 19.97                  |                     |          |
| 100                  | PI2 BPSK   | 135     | 69        | 19.80                 | 19.92                    | 19.88                  | 21.0                | 0.0      |
| 100                  | PI2 BPSK   | 135     | 138       | 19.83                 | 19.90                    | 19.77                  |                     |          |
| 100                  | PI2 BPSK   | 270     | 0         | 19.90                 | 19.93                    | 19.83                  | 21.0                | 0.0      |
| 100                  | QPSK       | 1       | 1         | 20.14                 | 20.16                    | 20.03                  |                     |          |
| 100                  | QPSK       | 1       | 137       | 19.84                 | 19.98                    | 19.89                  | 21.0                | 0.0      |
| 100                  | QPSK       | 1       | 271       | 20.04                 | 20.05                    | 19.97                  |                     |          |
| 100                  | QPSK       | 135     | 0         | 19.79                 | 19.84                    | 19.77                  | 21.0                | 0.0      |
| 100                  | QPSK       | 135     | 69        | 19.94                 | 20.14                    | 19.85                  |                     |          |
| 100                  | QPSK       | 135     | 138       | 19.77                 | 19.87                    | 19.84                  | 21.0                | 0.0      |
| 100                  | QPSK       | 270     | 0         | 19.90                 | 20.11                    | 19.81                  |                     |          |
| 100                  | 16QAM      | 1       | 1         | 20.11                 | 20.10                    | 20.08                  | 21.0                | 0.0      |
| 100                  | 64QAM      | 1       | 1         | 20.00                 | 20.04                    | 20.02                  | 21.0                | 0.0      |
| 100                  | 256QAM     | 1       | 1         | 19.95                 | 19.97                    | 19.97                  | 21.0                | 0.0      |
| Channel              |            |         |           | 508200                | 518598                   | 529996                 | 21.0                | MPR      |
| Frequency (MHz)      |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90                   | QPSK       | 1       | 1         | 20.07                 | 20.09                    | 20.03                  | 21.0                | 0.0      |
| Channel              |            |         |           | 507204                | 518598                   | 529996                 |                     |          |
| Frequency (MHz)      |            |         |           | 2538.02               | 2592.99                  | 2649.99                |                     |          |
| 80                   | QPSK       | 1       | 1         | 20.07                 | 20.09                    | 20.01                  | 21.0                | 0.0      |
| Channel              |            |         |           | 506200                | 518598                   | 531000                 |                     |          |
| Frequency (MHz)      |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70                   | QPSK       | 1       | 1         | 20.13                 | 20.06                    | 20.03                  | 21.0                | 0.0      |
| Channel              |            |         |           | 505200                | 518598                   | 531996                 |                     |          |
| Frequency (MHz)      |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60                   | QPSK       | 1       | 1         | 20.09                 | 20.10                    | 19.92                  | 21.0                | 0.0      |
| Channel              |            |         |           | 504200                | 518598                   | 532996                 |                     |          |
| Frequency (MHz)      |            |         |           | 2521.02               | 2692.99                  | 2664.99                |                     |          |
| 50                   | QPSK       | 1       | 1         | 20.08                 | 20.09                    | 20.03                  | 21.0                | 0.0      |
| Channel              |            |         |           | 503202                | 518598                   | 534000                 |                     |          |
| Frequency (MHz)      |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40                   | QPSK       | 1       | 1         | 20.10                 | 20.12                    | 20.03                  | 21.0                | 0.0      |
| Channel              |            |         |           | 502200                | 518598                   | 534996                 |                     |          |
| Frequency (MHz)      |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |
| 30                   | QPSK       | 1       | 1         | 20.07                 | 20.12                    | 19.97                  | 21.0                | 0.0      |
| Channel              |            |         |           | 501204                | 518598                   | 535996                 |                     |          |
| Frequency (MHz)      |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20                   | QPSK       | 1       | 1         | 20.11                 | 20.12                    | 19.99                  | 21.0                | 0.0      |
| Channel              |            |         |           | 500700                | 518598                   | 536496                 |                     |          |
| Frequency (MHz)      |            |         |           | 25013                 | 2592.99                  | 2682.41                |                     |          |
| 15                   | QPSK       | 1       | 1         | 20.09                 | 20.10                    | 20.03                  | 21.0                | 0.0      |
| Channel              |            |         |           | 500202                | 518598                   | 537000                 |                     |          |
| Frequency (MHz)      |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |
| 10                   | QPSK       | 1       | 1         | 20.08                 | 20.12                    | 19.91                  | 21.0                | 0.0      |



Part96\_n48\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 638000                      | 641666                         | 645332                       | 19.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 3570                        | 3624.99                        | 3679.98                      |                        |             |
| 40              | PI/2 BPSK  | 1       | 1         | 18.56                       | 18.65                          | 18.63                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 53        | 18.56                       | 18.61                          | 18.72                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 104       | 18.80                       | 18.80                          | 18.73                        | 19.5                   | 0.0         |
| 40              | PI/2 BPSK  | 50      | 0         | 18.67                       | 18.77                          | 18.76                        | 19.5                   | 0.0         |
| 40              | PI/2 BPSK  | 50      | 28        | 18.61                       | 18.64                          | 18.51                        | 19.5                   | 0.0         |
| 40              | PI/2 BPSK  | 50      | 56        | 18.61                       | 18.73                          | 18.68                        | 19.5                   | 0.0         |
| 40              | PI/2 BPSK  | 100     | 0         | 18.69                       | 18.69                          | 18.59                        | 19.5                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 18.47                       | 18.82                          | 18.63                        | 19.5                   | 0.0         |
| 40              | QPSK       | 1       | 53        | 18.75                       | 18.94                          | 18.63                        |                        |             |
| 40              | QPSK       | 1       | 104       | 18.68                       | 18.72                          | 18.72                        |                        |             |
| 40              | QPSK       | 50      | 0         | 18.57                       | 18.64                          | 18.63                        |                        |             |
| 40              | QPSK       | 50      | 28        | 18.73                       | 18.62                          | 18.80                        | 19.5                   | 0.0         |
| 40              | QPSK       | 50      | 56        | 18.57                       | 18.68                          | 18.63                        | 19.5                   | 0.0         |
| 40              | QPSK       | 100     | 0         | 18.67                       | 18.80                          | 18.68                        | 19.5                   | 0.0         |
| 40              | 8QAM       | 1       | 1         | 18.35                       | 18.63                          | 18.58                        | 19.5                   | 0.0         |
| 40              | 8QAM       | 1       | 1         | 18.43                       | 18.44                          | 18.43                        | 19.5                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 18.63                       | 18.65                          | 18.65                        | 19.5                   | 0.0         |
| Channel         |            |         |           | 637868                      | 641666                         | 645666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565.02                     | 3624.99                        | 3684.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 18.63                       | 18.76                          | 18.80                        | 19.5                   | 0.0         |
| Channel         |            |         |           | 637334                      | 641666                         | 646000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3569.01                     | 3624.99                        | 3690                         |                        |             |
| 20              | QPSK       | 1       | 1         | 18.46                       | 18.77                          | 18.60                        | 19.5                   | 0.0         |
| Channel         |            |         |           | 637168                      | 641666                         | 646166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.52                     | 3624.99                        | 3692.49                      |                        |             |
| 15              | QPSK       | 1       | 1         | 18.70                       | 18.52                          | 18.74                        | 19.5                   | 0.0         |
| Channel         |            |         |           | 637000                      | 641666                         | 646332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3555                        | 3625.45                        | 3694.98                      |                        |             |
| 10              | QPSK       | 1       | 1         | 18.52                       | 18.76                          | 18.61                        | 19.5                   | 0.0         |

Part96\_n48\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 638000                      | 641666                         | 645332                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3570                        | 3624.99                        | 3679.98                      |                        |             |
| 40              | PI/2 BPSK  | 1       | 1         | 22.95                       | 23.07                          | 22.82                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 53        | 22.92                       | 23.02                          | 22.64                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 104       | 22.88                       | 22.98                          | 22.63                        | 24.0                   | 0.0         |
| 40              | PI/2 BPSK  | 50      | 0         | 22.86                       | 22.95                          | 22.61                        | 24.0                   | 0.0         |
| 40              | PI/2 BPSK  | 50      | 28        | 22.93                       | 23.05                          | 22.79                        | 24.0                   | 0.0         |
| 40              | PI/2 BPSK  | 50      | 56        | 22.91                       | 23.00                          | 22.56                        | 24.0                   | 0.0         |
| 40              | PI/2 BPSK  | 100     | 0         | 22.90                       | 23.02                          | 22.77                        | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 22.98                       | 23.10                          | 22.84                        | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 53        | 22.89                       | 23.04                          | 22.71                        |                        |             |
| 40              | QPSK       | 1       | 104       | 22.90                       | 23.00                          | 22.67                        |                        |             |
| 40              | QPSK       | 50      | 0         | 22.92                       | 22.95                          | 22.73                        |                        |             |
| 40              | QPSK       | 50      | 28        | 22.96                       | 23.07                          | 22.81                        | 24.0                   | 0.0         |
| 40              | QPSK       | 50      | 56        | 22.87                       | 23.02                          | 22.66                        | 24.0                   | 0.0         |
| 40              | QPSK       | 100     | 0         | 22.94                       | 23.05                          | 22.78                        | 24.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 22.95                       | 22.99                          | 22.75                        | 24.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 21.13                       | 21.28                          | 21.02                        | 22.5                   | 1.5         |
| 40              | 256QAM     | 1       | 1         | 19.38                       | 19.45                          | 19.33                        | 20.5                   | 3.5         |
| Channel         |            |         |           | 637868                      | 641666                         | 645666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565.02                     | 3624.99                        | 3684.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 22.94                       | 22.97                          | 22.95                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 637244                      | 641666                         | 646000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3560.01                     | 3624.99                        | 3690                         |                        |             |
| 20              | QPSK       | 1       | 1         | 22.97                       | 22.99                          | 22.80                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 637168                      | 641666                         | 646166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.52                     | 3624.99                        | 3692.49                      |                        |             |
| 15              | QPSK       | 1       | 1         | 22.94                       | 22.98                          | 22.93                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 637000                      | 641666                         | 646332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3555                        | 3624.99                        | 3694.98                      |                        |             |
| 10              | QPSK       | 1       | 1         | 22.91                       | 22.97                          | 22.85                        | 24.0                   | 0.0         |

Part27Q\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633000                      | 633332                         | 633666                       | 18.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 16.98                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 137       | 16.96                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 271       | 16.99                       |                                |                              | 18.0                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 0         | 16.92                       |                                |                              | 18.0                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 69        | 16.92                       |                                |                              | 18.0                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       | 16.90                       |                                |                              | 18.0                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         | 16.91                       |                                |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 17.08                       |                                |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 16.86                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 16.95                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 16.87                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 17.07                       |                                |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 16.87                       |                                |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 270     | 0         | 17.03                       |                                |                              | 18.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 17.08                       |                                |                              | 18.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 16.93                       |                                |                              | 18.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 17.08                       |                                |                              | 18.0                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633332                         | 633666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
| 90              | QPSK       | 1       | 1         | 16.94                       | 16.74                          | 16.95                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 632666                      | 633332                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.0185                   | 3499.9785                      | 3509.9985                    |                        |             |
| 80              | QPSK       | 1       | 1         | 17.07                       | 16.82                          | 17.04                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633332                         | 634332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      |                        |             |
| 70              | QPSK       | 1       | 1         | 16.94                       | 16.63                          | 17.03                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633332                         | 634666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3499.98                        | 3519.99                      |                        |             |
| 60              | QPSK       | 1       | 1         | 17.01                       | 16.81                          | 17.08                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633332                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3499.98                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 16.99                       | 16.62                          | 17.05                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      |                        |             |
| 40              | QPSK       | 1       | 1         | 16.97                       | 16.84                          | 16.92                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3499.98                        | 3534.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 17.02                       | 16.84                          | 16.93                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 630664                      | 633332                         | 635992                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3462.01                     | 3499.98                        | 3537.98                      |                        |             |
| 25              | QPSK       | 1       | 1         | 16.90                       | 16.77                          | 17.05                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3499.98                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 17.07                       | 16.83                          | 17.00                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 630590                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3457.5                      | 3499.98                        | 3542.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 17.07                       | 16.77                          | 17.04                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      |                        |             |
| 10              | PI/2 BPSK  | 1       | 1         | 16.96                       | 16.83                          | 16.96                        | 18.0                   | 0.0         |



### Part27Q\_n77(HPUE)\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 1         |                             | 3498.98                        |                              |                        |             |
| 100             | P12 BPSK   | 1       | 1         |                             | 19.99                          |                              |                        |             |
| 100             | P12 BPSK   | 1       | 137       |                             | 19.98                          |                              | 21.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 271       |                             | 20.03                          |                              |                        |             |
| 100             | P12 BPSK   | 135     | 0         |                             | 19.95                          |                              | 21.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        |                             | 19.91                          |                              | 21.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       |                             | 19.91                          |                              |                        |             |
| 100             | P12 BPSK   | 270     | 0         |                             | 19.93                          |                              | 21.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 20.04                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 19.95                          |                              | 21.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 20.03                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 19.92                          |                              |                        |             |
| 100             | QPSK       | 135     | 69        |                             | 19.96                          |                              | 21.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 19.95                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 19.94                          |                              | 21.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 19.97                          |                              | 21.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 19.93                          |                              | 21.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 20.00                          |                              | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 90              | QPSK       | 1       | 1         | 63300                       | 63332                          | 63368                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
|                 |            |         |           | 19.84                       | 19.94                          | 19.98                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 80              | QPSK       | 1       | 1         | 63090                       | 63332                          | 63400                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3490.02                     | 3499.98                        | 3510                         |                        |             |
|                 |            |         |           | 19.90                       | 19.92                          | 19.92                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 70              | QPSK       | 1       | 1         | 63234                       | 63332                          | 63432                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      |                        |             |
|                 |            |         |           | 19.80                       | 20.01                          | 19.94                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 60              | QPSK       | 1       | 1         | 63090                       | 63332                          | 63498                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3490.02                     | 3499.98                        | 3519.98                      |                        |             |
|                 |            |         |           | 19.65                       | 19.81                          | 19.76                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 50              | QPSK       | 1       | 1         | 63168                       | 63332                          | 63500                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3475.02                     | 3499.98                        | 3525                         |                        |             |
|                 |            |         |           | 19.68                       | 19.80                          | 19.77                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 40              | QPSK       | 1       | 1         | 63134                       | 63332                          | 63532                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      |                        |             |
|                 |            |         |           | 19.63                       | 19.71                          | 19.70                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 30              | QPSK       | 1       | 1         | 63100                       | 63332                          | 63566                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3465                        | 3499.98                        | 3534.99                      |                        |             |
|                 |            |         |           | 19.69                       | 19.74                          | 19.74                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 25              | QPSK       | 1       | 1         | 63068                       | 63332                          | 63598                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3460.02                     | 3499.98                        | 3540                         |                        |             |
|                 |            |         |           | 19.58                       | 19.81                          | 19.72                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 15              | QPSK       | 1       | 1         | 63090                       | 63332                          | 63616                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      |                        |             |
|                 |            |         |           | 19.74                       | 19.76                          | 19.71                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 10              | P12 BPSK   | 1       | 1         | 63034                       | 63332                          | 63632                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      |                        |             |
|                 |            |         |           | 19.62                       | 19.79                          | 19.71                        | 21.0                   | 0.0         |

### Part27O\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 1         |                             | 3750                           | 3840                         | 3930                   |             |
| 100             | P12 BPSK   | 1       | 137       |                             | 17.12                          | 17.12                        | 17.03                  |             |
| 100             | P12 BPSK   | 1       | 137       |                             | 17.22                          | 17.23                        | 17.22                  | 18.0        |
| 100             | P12 BPSK   | 1       | 271       |                             | 17.21                          | 17.26                        | 17.22                  |             |
| 100             | P12 BPSK   | 135     | 0         |                             | 17.12                          | 17.23                        | 17.19                  | 18.0        |
| 100             | P12 BPSK   | 135     | 69        |                             | 17.15                          | 17.16                        | 17.15                  | 18.0        |
| 100             | P12 BPSK   | 135     | 138       |                             | 17.05                          | 17.10                        | 17.00                  |             |
| 100             | P12 BPSK   | 270     | 0         |                             | 17.02                          | 17.06                        | 17.02                  | 18.0        |
| 100             | QPSK       | 1       | 1         |                             | 17.20                          | 17.31                        | 17.24                  |             |
| 100             | QPSK       | 1       | 137       |                             | 17.04                          | 17.21                        | 17.15                  | 18.0        |
| 100             | QPSK       | 1       | 271       |                             | 17.24                          | 17.27                        | 17.21                  |             |
| 100             | QPSK       | 135     | 0         |                             | 17.02                          | 17.05                        | 16.94                  |             |
| 100             | QPSK       | 135     | 69        |                             | 17.14                          | 17.28                        | 17.14                  | 18.0        |
| 100             | QPSK       | 135     | 138       |                             | 16.88                          | 17.01                        | 16.99                  |             |
| 100             | QPSK       | 270     | 0         |                             | 16.98                          | 17.25                        | 16.90                  | 18.0        |
| 100             | 16QAM      | 1       | 1         |                             | 17.04                          | 17.07                        | 17.07                  | 18.0        |
| 100             | 64QAM      | 1       | 1         |                             | 17.02                          | 17.03                        | 16.93                  | 18.0        |
| 100             | 256QAM     | 1       | 1         |                             | 16.92                          | 17.05                        | 16.96                  | 18.0        |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 90              | QPSK       | 1       | 1         | 64868                       | 65000                          | 66232                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3745.02                     | 3840                           | 3934.98                      |                        |             |
|                 |            |         |           | 17.26                       | 17.30                          | 17.15                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 80              | QPSK       | 1       | 1         | 64834                       | 65000                          | 66266                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3740.01                     | 3840                           | 3939.99                      |                        |             |
|                 |            |         |           | 17.14                       | 17.23                          | 17.20                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 70              | QPSK       | 1       | 1         | 64800                       | 65000                          | 66300                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3735                        | 3840                           | 3945                         |                        |             |
|                 |            |         |           | 17.28                       | 17.25                          | 17.21                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 60              | QPSK       | 1       | 1         | 64868                       | 65000                          | 66312                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3730.02                     | 3840                           | 3949.98                      |                        |             |
|                 |            |         |           | 17.19                       | 17.22                          | 17.24                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 50              | QPSK       | 1       | 1         | 64834                       | 65000                          | 66366                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3725.01                     | 3840                           | 3954.99                      |                        |             |
|                 |            |         |           | 17.13                       | 17.28                          | 17.12                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 40              | QPSK       | 1       | 1         | 64800                       | 65000                          | 66400                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3720                        | 3840                           | 3960                         |                        |             |
|                 |            |         |           | 17.15                       | 17.28                          | 17.18                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 30              | QPSK       | 1       | 1         | 64768                       | 65000                          | 66432                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3715.02                     | 3840                           | 3964.98                      |                        |             |
|                 |            |         |           | 17.15                       | 17.21                          | 17.16                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 25              | QPSK       | 1       | 1         | 64750                       | 65000                          | 66450                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3712.5                      | 3840                           | 3967.5                       |                        |             |
|                 |            |         |           | 17.20                       | 17.28                          | 17.21                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 20              | QPSK       | 1       | 1         | 64734                       | 65000                          | 66466                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3710.01                     | 3840                           | 3969.99                      |                        |             |
|                 |            |         |           | 17.20                       | 17.29                          | 17.17                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 15              | QPSK       | 1       | 1         | 64716                       | 65000                          | 66482                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3707.52                     | 3840                           | 3972.48                      |                        |             |
|                 |            |         |           | 17.16                       | 17.28                          | 17.21                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 10              | P12 BPSK   | 1       | 1         | 64700                       | 65000                          | 66500                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3705                        | 3840                           | 3975                         |                        |             |
|                 |            |         |           | 17.23                       | 17.28                          | 17.20                        | 18.0                   | 0.0         |

### Part27O\_n77(HPUE)\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 655000                      | 655000                         | 655000                       |                        |             |
|                 |            |         |           | 3750                        | 3840                           | 3930                         |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 19.99                       | 20.11                          | 19.95                        |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 20.11                       | 20.17                          | 20.15                        | 21.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 271       | 20.20                       | 20.21                          | 20.10                        |                        |             |
| 100             | P12 BPSK   | 135     | 0         | 19.94                       | 20.06                          | 20.01                        | 21.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        | 20.05                       | 20.07                          | 19.94                        | 21.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       | 19.88                       | 20.01                          | 20.01                        | 21.0                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         | 19.98                       | 19.98                          | 19.86                        |                        |             |
| 100             | QPSK       | 1       | 1         | 20.16                       | 20.23                          | 20.18                        |                        |             |
| 100             | QPSK       | 1       | 137       | 20.13                       | 20.16                          | 20.07                        | 21.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 20.11                       | 20.21                          | 20.15                        |                        |             |
| 100             | QPSK       | 135     | 0         | 20.01                       | 20.07                          | 20.02                        |                        |             |
| 100             | QPSK       | 135     | 69        | 20.04                       | 20.11                          | 20.05                        | 21.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 19.87                       | 19.99                          | 19.97                        |                        |             |
| 100             | QPSK       | 270     | 0         | 19.90                       | 19.98                          | 19.87                        | 21.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 20.16                       | 20.16                          | 20.11                        | 21.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 19.99                       | 20.11                          | 19.96                        | 21.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 20.20                       | 20.22                          | 20.23                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 648668                      | 655000                         | 662332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 90              | QPSK       | 1       | 1         | 20.15                       | 20.18                          | 20.14                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 648334                      | 655000                         | 662666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 80              | QPSK       | 1       | 1         | 20.10                       | 20.10                          | 20.17                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 648000                      | 655000                         | 663000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 70              | QPSK       | 1       | 1         | 20.16                       | 20.13                          | 20.15                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 648668                      | 655000                         | 663332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 60              | QPSK       | 1       | 1         | 20.09                       | 20.21                          | 20.11                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 648334                      | 655000                         | 663666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 50              | QPSK       | 1       | 1         | 20.11                       | 20.15                          | 20.13                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 648000                      | 655000                         | 664000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 40              | QPSK       | 1       | 1         | 20.01                       | 20.13                          | 20.08                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 647668                      | 655000                         | 664332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 20.11                       | 20.22                          | 20.16                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 647500                      | 655000                         | 664500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 20.12                       | 20.24                          | 20.18                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 647334                      | 655000                         | 664666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 20.11                       | 20.20                          | 20.15                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 647168                      | 655000                         | 664832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 20.12                       | 20.21                          | 20.17                        | 21.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
|                 |            |         |           | 647000                      | 655000                         | 665000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | P12 BPSK   | 1       | 1         | 20.13                       | 20.15                          | 20.15                        | 21.0                   | 0.0         |



Part27Q\_n78\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 1         |                             | 633332                         | 3499.98                      |                        |             |
|                 |            |         |           |                             | 17.12                          |                              |                        |             |
| 100             | P12 BPSK   | 1       | 137       |                             | 17.07                          |                              | 18.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 271       |                             | 17.09                          |                              |                        |             |
| 100             | P12 BPSK   | 135     | 0         |                             | 17.01                          |                              | 18.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        |                             | 16.95                          |                              | 18.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       |                             | 16.97                          |                              | 18.0                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         |                             | 16.95                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 17.21                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 16.93                          |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 16.92                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.02                          |                              |                        |             |
| 100             | QPSK       | 135     | 69        |                             | 17.16                          |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 16.93                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 17.17                          |                              | 18.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 17.02                          |                              | 18.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 16.95                          |                              | 18.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.09                          |                              | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 90              | QPSK       | 1       | 1         | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.15                       | 17.17                          | 17.14                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 80              | QPSK       | 1       | 1         | 632998                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3499.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
|                 |            |         |           | 17.10                       | 17.12                          | 17.10                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 70              | QPSK       | 1       | 1         | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.12                       | 16.97                          | 16.94                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 60              | QPSK       | 1       | 1         | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.09                       | 17.17                          | 16.88                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 50              | QPSK       | 1       | 1         | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
|                 |            |         |           | 17.00                       | 16.96                          | 17.15                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 40              | QPSK       | 1       | 1         | 631194                      | 633332                         | 635332                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3470.01                     | 3499.98                        | 3529.99                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.02                       | 16.91                          | 17.14                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 30              | QPSK       | 1       | 1         | 631000                      | 633332                         | 635668                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3465                        | 3499.98                        | 3534.99                      | (dBm)                  | (dB)        |
|                 |            |         |           | 16.97                       | 16.91                          | 16.92                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 25              | QPSK       | 1       | 1         | 630834                      | 633332                         | 635832                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3462.01                     | 3499.98                        | 3537.49                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.10                       | 16.97                          | 17.08                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 20              | QPSK       | 1       | 1         | 630668                      | 633332                         | 636000                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3460.02                     | 3499.98                        | 3540                         | (dBm)                  | (dB)        |
|                 |            |         |           | 16.90                       | 16.93                          | 17.09                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 15              | QPSK       | 1       | 1         | 630500                      | 633332                         | 636168                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.13                       | 17.03                          | 17.07                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 10              | P12 BPSK   | 1       | 1         | 630334                      | 633332                         | 636332                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.13                       | 17.20                          | 17.10                        | 18.0                   | 0.0         |

Part27O\_n78\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 1         |                             | 650000                         |                              |                        |             |
|                 |            |         |           |                             | 3750                           |                              |                        |             |
| 100             | P12 BPSK   | 1       | 137       |                             | 16.98                          |                              | 18.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 271       |                             | 16.99                          |                              |                        |             |
| 100             | P12 BPSK   | 135     | 0         |                             | 17.16                          |                              | 18.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        |                             | 17.08                          |                              | 18.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       |                             | 16.96                          |                              | 18.0                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         |                             | 17.04                          |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 17.25                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 16.98                          |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 16.93                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 16.99                          |                              |                        |             |
| 100             | QPSK       | 135     | 69        |                             | 17.22                          |                              | 18.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 17.19                          |                              | 18.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 17.16                          |                              | 18.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.16                          |                              | 18.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.02                          |                              | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 90              | QPSK       | 1       | 1         | 649668                      | 650000                         | 650332                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3745.02                     | 3750                           | 3754.98                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.23                       | 17.13                          | 17.04                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 80              | QPSK       | 1       | 1         | 649334                      | 650000                         | 650668                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3740.01                     | 3750                           | 3759.99                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.21                       | 17.18                          | 17.05                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 70              | QPSK       | 1       | 1         | 649000                      | 650000                         | 651000                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3735                        | 3750                           | 3765                         | (dBm)                  | (dB)        |
|                 |            |         |           | 17.03                       | 16.98                          | 16.93                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 60              | QPSK       | 1       | 1         | 648668                      | 650000                         | 651332                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3730.02                     | 3750                           | 3764.98                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.21                       | 17.20                          | 17.03                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 50              | QPSK       | 1       | 1         | 648334                      | 650000                         | 651668                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3725.01                     | 3750                           | 3774.99                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.01                       | 17.03                          | 16.90                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 40              | QPSK       | 1       | 1         | 648000                      | 650000                         | 652000                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3720                        | 3750                           | 3780                         | (dBm)                  | (dB)        |
|                 |            |         |           | 17.10                       | 17.15                          | 17.08                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 30              | QPSK       | 1       | 1         | 647668                      | 650000                         | 652332                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3715.02                     | 3750                           | 3784.98                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.21                       | 17.06                          | 17.08                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 25              | QPSK       | 1       | 1         | 647334                      | 650000                         | 652668                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3710.01                     | 3750                           | 3789.99                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.10                       | 17.20                          | 17.05                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 20              | QPSK       | 1       | 1         | 647168                      | 650000                         | 652832                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3707.52                     | 3750                           | 3792.48                      | (dBm)                  | (dB)        |
|                 |            |         |           | 17.26                       | 17.02                          | 16.94                        | 18.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 15              | QPSK       | 1       | 1         | 647000                      | 650000                         | 653000                       | Tune-up limit          | MPR         |
|                 |            |         |           | 3705                        | 3750                           | 3795                         | (dBm)                  | (dB)        |
|                 |            |         |           | 17.26                       | 17.16                          | 16.98                        | 18.0                   | 0.0         |

Part27Q\_n77\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 100             | P12 BPSK   | 1       | 1         |                       | 633332                   |                        |                     |          |
|                 |            |         |           |                       | 3499.98                  |                        |                     |          |
| 100             | P12 BPSK   | 1       | 137       |                       | 16.23                    |                        | 19.0                | 0.0      |
| 100             | P12 BPSK   | 1       | 271       |                       | 16.26                    |                        |                     |          |
| 100             | P12 BPSK   | 135     | 0         |                       | 16.21                    |                        | 19.0                | 0.0      |
| 100             | P12 BPSK   | 135     | 69        |                       | 16.11                    |                        | 19.0                | 0.0      |
| 100             | P12 BPSK   | 135     | 138       |                       | 16.16                    |                        | 19.0                | 0.0      |
| 100             | P12 BPSK   | 270     | 0         |                       | 16.12                    |                        | 19.0                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 16.28                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 16.16                    |                        | 19.0                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 16.21                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 16.18                    |                        | 19.0                | 0.0      |
| 100             | QPSK       | 135     | 69        |                       | 16.26                    |                        | 19.0                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 16.12                    |                        | 19.0                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 16.24                    |                        | 19.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 16.05                    |                        | 19.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 17.98                    |                        | 19.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 16.11                    |                        | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 90              | QPSK       | 1       | 1         | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 16.20                 | 16.17                    | 16.15                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 80              | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3490.02               | 3499.98                  | 3500                   |                     |          |
| 80              | QPSK       | 1       | 1         | 16.12                 | 16.18                    | 16.22                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 70              | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 16.19                 | 17.96                    | 16.07                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 60              | QPSK       | 1       | 1         | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 16.17                 | 16.00                    | 17.98                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 50              | QPSK       | 1       | 1         | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 16.21                 | 16.16                    | 16.18                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 40              | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3470.01               | 3499.98                  | 3509.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 16.16                 | 16.21                    | 16.11                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 30              | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 16.22                 | 16.17                    | 16.04                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 25              | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3462.01               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 16.23                 | 16.23                    | 16.14                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 20              | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 16.21                 | 16.20                    | 17.98                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 15              | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 16.21                 | 16.16                    | 16.11                  | 19.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | P12 BPSK   | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
|                 |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | P12 BPSK   | 1       | 1         | 16.16                 | 17.98                    | 16.08                  | 19.0                | 0.0      |



Part27Q\_n77(HPUE)\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633332                |                          |                        | 22.0                | 0.0      |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 21.01                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 20.90                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 20.97                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 21.05                 |                          |                        | 22.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        | 20.88                 |                          |                        | 22.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 20.73                 |                          |                        | 22.0                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         | 20.91                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 21.06                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 20.95                 |                          |                        |                     | 0.0      |
| 100             | QPSK       | 1       | 271       | 21.04                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 20.88                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 69        | 21.04                 |                          |                        | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 21.01                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 21.02                 |                          |                        | 22.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 20.74                 |                          |                        | 22.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 20.62                 |                          |                        | 22.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 20.91                 |                          |                        | 22.0                | 0.0      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 21.00                 | 20.87                    | 20.85                  | 22.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 20.77                 | 20.89                    | 20.66                  | 22.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 20.84                 | 20.61                    | 20.86                  | 22.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 20.88                 | 20.60                    | 20.58                  | 22.0                | 0.0      |
| Channel         |            |         |           | 631868                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.0185             | 3499.9785                | 3524.9985              |                     |          |
| 50              | QPSK       | 1       | 1         | 20.82                 | 20.70                    | 20.92                  | 22.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.99                |                     |          |
| 40              | QPSK       | 1       | 1         | 20.81                 | 20.61                    | 20.60                  | 22.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 20.82                 | 20.79                    | 20.61                  | 22.0                | 0.0      |
| Channel         |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 20.80                 | 20.94                    | 20.71                  | 22.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 20.72                 | 20.90                    | 20.57                  | 22.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 20.91                 | 20.88                    | 20.46                  | 22.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 20.76                 | 20.67                    | 20.70                  | 22.0                | 0.0      |

Part270\_n77\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 650000                      |                                |                              | 19.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3750                        |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 17.92                       | 17.97                          | 17.92                        |                        |             |
| 100             | PI2 BPSK   | 1       | 137       | 18.13                       | 18.18                          | 18.07                        |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 18.25                       | 18.27                          | 18.24                        |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 18.01                       | 18.09                          | 18.01                        |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 18.15                       | 18.16                          | 18.07                        |                        |             |
| 100             | PI2 BPSK   | 135     | 138       | 18.05                       | 18.13                          | 18.00                        |                        |             |
| 100             | PI2 BPSK   | 270     | 0         | 18.10                       | 18.13                          | 18.05                        |                        |             |
| 100             | QPSK       | 1       | 1         | 18.22                       | 18.31                          | 18.16                        |                        |             |
| 100             | QPSK       | 1       | 137       | 18.13                       | 18.19                          | 18.11                        |                        |             |
| 100             | QPSK       | 1       | 271       | 18.02                       | 18.08                          | 18.02                        |                        |             |
| 100             | QPSK       | 135     | 0         | 17.99                       | 18.09                          | 17.99                        |                        |             |
| 100             | QPSK       | 135     | 69        | 18.16                       | 18.22                          | 18.14                        |                        |             |
| 100             | QPSK       | 135     | 138       | 18.07                       | 18.17                          | 18.08                        |                        |             |
| 100             | QPSK       | 270     | 0         | 18.01                       | 18.20                          | 18.09                        |                        |             |
| 100             | 16QAM      | 1       | 1         | 17.78                       | 17.87                          | 17.80                        |                        |             |
| 100             | 64QAM      | 1       | 1         | 17.98                       | 18.06                          | 17.95                        |                        |             |
| 100             | 256QAM     | 1       | 1         | 18.18                       | 18.22                          | 18.22                        |                        |             |
| Channel         |            |         |           | 648668                      | 650000                         | 652332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3745.02                     | 3840                           | 3934.98                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 18.21                       | 18.21                          | 18.11                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 652666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3740.01                     | 3840                           | 3939.98                      | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 18.11                       | 18.18                          | 18.15                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 653000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3735                        | 3840                           | 3945                         | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 18.22                       | 18.19                          | 18.16                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648668                      | 650000                         | 653332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3730.02                     | 3840                           | 3949.98                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 18.18                       | 18.28                          | 18.12                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 653666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3725.01                     | 3840                           | 3954.99                      | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 18.16                       | 18.25                          | 18.10                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 654000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3720                        | 3840                           | 3960                         | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 18.21                       | 18.21                          | 18.11                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647668                      | 650000                         | 654332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3715.02                     | 3840                           | 3964.98                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 18.11                       | 18.30                          | 18.12                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647500                      | 650000                         | 654500                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3712.5                      | 3840                           | 3967.5                       | (dBm)                  | (dB)        |
| 25              | QPSK       | 1       | 1         | 18.15                       | 18.25                          | 18.08                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647334                      | 650000                         | 654666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3710.01                     | 3840                           | 3969.99                      | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 18.13                       | 18.20                          | 18.13                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647168                      | 650000                         | 654832                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3707.52                     | 3840                           | 3972.48                      | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 18.18                       | 18.22                          | 18.07                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647000                      | 650000                         | 655000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3705                        | 3840                           | 3975                         | (dBm)                  | (dB)        |
| 10              | PI2 BPSK   | 1       | 1         | 18.22                       | 18.29                          | 18.13                        | 19.0                   | 0.0         |

Part270\_n77(HPUE)\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------|-------------|
| Channel         |            |         |           | 650000                      | 650000                         | 650000                       | 22.0          | 0.0         |
| Frequency (MHz) |            |         |           | 3750                        | 3840                           | 3930                         |               |             |
| 100             | PI2 BPSK   | 1       | 1         | 20.91                       | 20.94                          | 20.64                        |               |             |
| 100             | PI2 BPSK   | 1       | 137       | 20.84                       | 20.94                          | 20.76                        |               |             |
| 100             | PI2 BPSK   | 1       | 271       | 20.85                       | 20.71                          | 20.73                        |               |             |
| 100             | PI2 BPSK   | 135     | 0         | 20.97                       | 20.91                          | 20.93                        | 22.0          | 0.0         |
| 100             | PI2 BPSK   | 135     | 69        | 20.89                       | 20.90                          | 20.94                        | 22.0          | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 20.83                       | 20.90                          | 20.81                        |               |             |
| 100             | PI2 BPSK   | 270     | 0         | 20.88                       | 20.73                          | 20.74                        | 22.0          | 0.0         |
| 100             | QPSK       | 1       | 1         | 20.94                       | 21.02                          | 20.85                        |               |             |
| 100             | QPSK       | 1       | 137       | 20.86                       | 20.81                          | 20.79                        | 22.0          | 0.0         |
| 100             | QPSK       | 1       | 271       | 20.86                       | 20.82                          | 20.70                        |               |             |
| 100             | QPSK       | 135     | 0         | 20.91                       | 21.00                          | 20.81                        |               |             |
| 100             | QPSK       | 135     | 69        | 20.71                       | 20.93                          | 20.77                        | 22.0          | 0.0         |
| 100             | QPSK       | 135     | 138       | 20.59                       | 20.61                          | 20.74                        |               |             |
| 100             | QPSK       | 270     | 0         | 20.94                       | 20.98                          | 20.84                        | 22.0          | 0.0         |
| 100             | 16QAM      | 1       | 1         | 20.90                       | 20.86                          | 20.95                        | 22.0          | 0.0         |
| 100             | 64QAM      | 1       | 1         | 20.73                       | 20.93                          | 20.72                        | 22.0          | 0.0         |
| 100             | 256QAM     | 1       | 1         | 20.85                       | 20.68                          | 20.72                        | 22.0          | 0.0         |
| Channel         |            |         |           | 648668                      | 650000                         | 652332                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3745.02                     | 3840                           | 3934.98                      | (dBm)         | (dB)        |
| 90              | QPSK       | 1       | 1         | 20.91                       | 20.92                          | 20.66                        | 22.0          | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 652666                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3740.01                     | 3840                           | 3939.99                      | (dBm)         | (dB)        |
| 80              | QPSK       | 1       | 1         | 20.95                       | 20.84                          | 20.63                        | 22.0          | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 653000                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3735                        | 3840                           | 3945                         | (dBm)         | (dB)        |
| 70              | QPSK       | 1       | 1         | 20.92                       | 20.85                          | 20.66                        | 22.0          | 0.0         |
| Channel         |            |         |           | 648668                      | 650000                         | 653332                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3730.02                     | 3840                           | 3949.98                      | (dBm)         | (dB)        |
| 60              | QPSK       | 1       | 1         | 20.72                       | 20.83                          | 20.86                        | 22.0          | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 653666                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3725.01                     | 3840                           | 3954.99                      | (dBm)         | (dB)        |
| 50              | QPSK       | 1       | 1         | 20.84                       | 21.00                          | 20.67                        | 22.0          | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 654000                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3720                        | 3840                           | 3960                         | (dBm)         | (dB)        |
| 40              | QPSK       | 1       | 1         | 20.71                       | 20.80                          | 20.68                        | 22.0          | 0.0         |
| Channel         |            |         |           | 647668                      | 650000                         | 654332                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3715.02                     | 3840                           | 3964.98                      | (dBm)         | (dB)        |
| 30              | QPSK       | 1       | 1         | 20.89                       | 20.99                          | 20.85                        | 22.0          | 0.0         |
| Channel         |            |         |           | 647500                      | 650000                         | 654500                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3712.5                      | 3840                           | 3972.5                       | (dBm)         | (dB)        |
| 25              | QPSK       | 1       | 1         | 20.97                       | 20.74                          | 20.66                        | 22.0          | 0.0         |
| Channel         |            |         |           | 647334                      | 650000                         | 654666                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3710.01                     | 3840                           | 3969.99                      | (dBm)         | (dB)        |
| 20              | QPSK       | 1       | 1         | 20.68                       | 20.98                          | 20.71                        | 22.0          | 0.0         |
| Channel         |            |         |           | 647168                      | 650000                         | 654832                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3707.52                     | 3840                           | 3972.48                      | (dBm)         | (dB)        |
| 15              | QPSK       | 1       | 1         | 20.67                       | 20.89                          | 20.66                        | 22.0          | 0.0         |
| Channel         |            |         |           | 647000                      | 650000                         | 655000                       | Tune-up limit | MPR         |
| Frequency (MHz) |            |         |           | 3705                        | 3840                           | 3975                         | (dBm)         | (dB)        |
| 10              | PI2 BPSK   | 1       | 1         | 20.69                       | 20.90                          | 20.93                        | 22.0          | 0.0         |



### Part27Q\_n78\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633332                      |                                |                              | 19.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3499.98                     |                                |                              |                        |             |
| 100             | PV2 BPSK   | 1       | 1         | 17.85                       |                                |                              |                        |             |
| 100             | PV2 BPSK   | 1       | 137       | 17.91                       |                                |                              |                        |             |
| 100             | PV2 BPSK   | 1       | 271       | 18.11                       |                                |                              |                        |             |
| 100             | PV2 BPSK   | 135     | 0         | 17.99                       |                                |                              | 19.0                   | 0.0         |
| 100             | PV2 BPSK   | 135     | 69        | 17.94                       |                                |                              | 19.0                   | 0.0         |
| 100             | PV2 BPSK   | 135     | 138       | 17.92                       |                                |                              | 19.0                   | 0.0         |
| 100             | PV2 BPSK   | 270     | 0         | 17.99                       |                                |                              | 19.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 18.16                       |                                |                              | 19.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 17.97                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 17.96                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 18.04                       |                                |                              | 19.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 18.14                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 138       | 17.96                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 18.11                       |                                |                              | 19.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 17.86                       |                                |                              | 19.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 17.82                       |                                |                              | 19.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 17.87                       |                                |                              | 19.0                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 18.15                       | 18.07                          | 18.00                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 632668                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 18.02                       | 17.87                          | 18.02                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 17.87                       | 17.93                          | 18.05                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 17.94                       | 18.12                          | 17.89                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 17.95                       | 17.89                          | 17.90                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3499.99                        | 3529.98                      |                        |             |
| 40              | QPSK       | 1       | 1         | 18.15                       | 17.99                          | 18.01                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633332                         | 635668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3499.98                        | 3534.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 17.90                       | 18.07                          | 17.75                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 630634                      | 633332                         | 635932                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3499.99                        | 3537.48                      |                        |             |
| 25              | QPSK       | 1       | 1         | 18.14                       | 17.85                          | 17.92                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3499.98                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 18.03                       | 17.92                          | 17.82                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 630500                      | 633332                         | 636168                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3457.5                      | 3499.99                        | 3542.49                      |                        |             |
| 15              | QPSK       | 1       | 1         | 18.00                       | 17.85                          | 17.99                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      |                        |             |
| 10              | PV2 BPSK   | 1       | 1         | 18.12                       | 17.92                          | 18.07                        | 19.0                   | 0.0         |

### Part27Q\_n78\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 650000                         |                              | 19.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                             | 3750                           |                              |                        |             |
| 100             | PV2 BPSK   | 1       | 1         | 17.87                       |                                |                              | 19.0                   | 0.0         |
| 100             | PV2 BPSK   | 1       | 137       | 18.16                       |                                |                              |                        |             |
| 100             | PV2 BPSK   | 1       | 271       | 18.27                       |                                |                              |                        |             |
| 100             | PV2 BPSK   | 135     | 0         | 18.09                       |                                |                              | 19.0                   | 0.0         |
| 100             | PV2 BPSK   | 135     | 69        | 18.16                       |                                |                              | 19.0                   | 0.0         |
| 100             | PV2 BPSK   | 135     | 138       | 18.13                       |                                |                              | 19.0                   | 0.0         |
| 100             | PV2 BPSK   | 270     | 0         | 18.13                       |                                |                              | 19.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 18.29                       |                                |                              | 19.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 18.16                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 18.08                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 18.09                       |                                |                              | 19.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 18.22                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 138       | 18.17                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 18.17                       |                                |                              | 19.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 17.87                       |                                |                              | 19.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 18.06                       |                                |                              | 19.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 18.22                       |                                |                              | 19.0                   | 0.0         |
| Channel         |            |         |           | 648668                      | 650000                         | 650332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3745.02                     | 3750                           | 3754.98                      |                        |             |
| 90              | QPSK       | 1       | 1         | 18.07                       | 18.09                          | 18.18                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 650668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3740.01                     | 3750                           | 3759.99                      |                        |             |
| 80              | QPSK       | 1       | 1         | 17.84                       | 17.92                          | 18.06                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 651000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3735                        | 3750                           | 3765                         |                        |             |
| 70              | QPSK       | 1       | 1         | 17.91                       | 18.17                          | 17.91                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647668                      | 650000                         | 651332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3730.02                     | 3750                           | 3759.99                      |                        |             |
| 60              | QPSK       | 1       | 1         | 18.03                       | 17.86                          | 18.21                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 651668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3725.01                     | 3750                           | 3774.99                      |                        |             |
| 50              | QPSK       | 1       | 1         | 17.89                       | 17.83                          | 17.99                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 652000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3720                        | 3750                           | 3760                         |                        |             |
| 40              | QPSK       | 1       | 1         | 17.89                       | 17.94                          | 18.06                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647668                      | 650000                         | 652332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3715.02                     | 3750                           | 3764.98                      |                        |             |
| 30              | QPSK       | 1       | 1         | 17.85                       | 18.00                          | 17.96                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647500                      | 650000                         | 652500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3712.5                      | 3750                           | 3762.5                       |                        |             |
| 25              | QPSK       | 1       | 1         | 18.10                       | 18.15                          | 18.04                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647334                      | 650000                         | 652668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3710.01                     | 3750                           | 3769.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 17.92                       | 17.83                          | 18.05                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647168                      | 650000                         | 652832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3707.82                     | 3750                           | 3762.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 18.15                       | 18.17                          | 17.82                        | 19.0                   | 0.0         |
| Channel         |            |         |           | 647000                      | 650000                         | 653000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3705                        | 3750                           | 3795                         |                        |             |
| 10              | PV2 BPSK   | 1       | 1         | 18.09                       | 17.87                          | 17.82                        | 19.0                   | 0.0         |

### Part27Q\_n77\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           |                          | 633332                      |                           | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                          | 3499.98                     |                           |                        |             |
| 100             | Pi/2 BPSK  | 1       | 1         | 23.47                    |                             |                           |                        |             |
| 100             | Pi/2 BPSK  | 1       | 137       | 23.38                    |                             |                           |                        |             |
| 100             | Pi/2 BPSK  | 1       | 271       | 23.36                    |                             |                           |                        |             |
| 100             | Pi/2 BPSK  | 135     | 0         | 23.45                    |                             |                           | 24.0                   | 0.0         |
| 100             | Pi/2 BPSK  | 135     | 69        | 23.34                    |                             |                           | 24.0                   | 0.0         |
| 100             | Pi/2 BPSK  | 135     | 138       | 23.37                    |                             |                           | 24.0                   | 0.0         |
| 100             | Pi/2 BPSK  | 270     | 0         | 23.36                    |                             |                           | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 23.48                    |                             |                           | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 23.32                    |                             |                           |                        |             |
| 100             | QPSK       | 1       | 271       | 23.35                    |                             |                           |                        |             |
| 100             | QPSK       | 135     | 0         | 23.41                    |                             |                           | 24.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 23.46                    |                             |                           |                        |             |
| 100             | QPSK       | 135     | 138       | 23.26                    |                             |                           |                        |             |
| 100             | QPSK       | 270     | 0         | 23.44                    |                             |                           | 24.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 23.46                    |                             |                           | 24.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 23.21                    |                             |                           | 24.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 21.96                    |                             |                           | 22.5                   | 1.5         |
| Channel         |            |         |           | 633000                   | 633332                      | 633668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |             |
| 90              | QPSK       | 1       | 1         | 23.10                    | 23.29                       | 23.34                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 632668                   | 633332                      | 634000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |             |
| 80              | QPSK       | 1       | 1         | 22.97                    | 23.06                       | 23.38                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 632334                   | 633332                      | 634332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |             |
| 70              | QPSK       | 1       | 1         | 23.10                    | 23.22                       | 23.38                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 632000                   | 633332                      | 634668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                     | 3519                      |                        |             |
| 60              | QPSK       | 1       | 1         | 22.98                    | 23.14                       | 23.15                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 631668                   | 633332                      | 635000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |             |
| 50              | QPSK       | 1       | 1         | 22.85                    | 23.28                       | 23.20                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 631334                   | 633332                      | 635332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                     | 3528.98                   |                        |             |
| 40              | QPSK       | 1       | 1         | 22.59                    | 23.31                       | 23.10                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 631000                   | 633332                      | 635668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |             |
| 30              | QPSK       | 1       | 1         | 23.14                    | 23.37                       | 23.35                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 630634                   | 633332                      | 635832                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3537.48                   |                        |             |
| 25              | QPSK       | 1       | 1         | 22.83                    | 23.21                       | 23.10                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 630668                   | 633332                      | 636000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480.02                  | 3499.98                     | 3540                      |                        |             |
| 20              | QPSK       | 1       | 1         | 23.08                    | 23.34                       | 23.18                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 630500                   | 633332                      | 636168                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |             |
| 15              | QPSK       | 1       | 1         | 22.68                    | 23.02                       | 23.15                     | 24.0                   | 0.0         |
| Channel         |            |         |           | 630334                   | 633332                      | 636332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |             |
| 10              | Pi/2 BPSK  | 1       | 1         | 23.17                    | 23.07                       | 23.38                     | 24.0                   | 0.0         |



| Part27Q_n77(HPUE)_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332                | 633332                   | 633332                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 26.46                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       | 26.45                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       | 26.41                 |                          |                        | 26.5                | 0.5      |  |
| 100                     | PI2 BPSK   | 135     | 0         | 26.07                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 69        | 26.43                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 138       | 25.91                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         | 25.95                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         | 26.47                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 26.42                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 26.34                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 25.51                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 69        | 26.44                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 25.37                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 25.42                 |                          |                        |                     |          |  |
| 100                     | 8QAM       | 1       | 1         | 25.51                 |                          |                        | 26.0                | 1.0      |  |
| 100                     | 8QAM       | 1       | 1         | 23.88                 |                          |                        | 24.5                | 2.5      |  |
| 100                     | 25QAM      | 1       | 1         | 21.93                 |                          |                        | 22.5                | 4.5      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 25.94                 | 26.22                    | 26.28                  |                     |          |  |
| Channel                 |            |         |           | 632968                | 633332                   | 634000                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 25.72                 | 25.95                    | 26.08                  |                     |          |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 25.91                 | 26.29                    | 26.22                  |                     |          |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 25.79                 | 26.22                    | 26.24                  |                     |          |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 25.76                 | 26.17                    | 26.23                  |                     |          |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 25.84                 | 26.26                    | 26.15                  |                     |          |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 26.02                 | 26.10                    | 26.22                  |                     |          |  |
| Channel                 |            |         |           | 630500                | 633332                   | 635832                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3460.51               | 3499.98                  | 3537.48                |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 25.82                 | 26.05                    | 26.18                  |                     |          |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 25.86                 | 26.05                    | 26.20                  |                     |          |  |
| Channel                 |            |         |           | 630500                | 633332                   | 636166                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 25.85                 | 26.02                    | 26.15                  |                     |          |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                      | PI2 BPSK   | 1       | 1         | 25.93                 | 25.94                    | 26.35                  |                     |          |  |

| Part27O_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                | 656000                   | 662000                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 23.05                 | 23.11                    | 22.98                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       | 22.99                 | 22.99                    | 22.92                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 23.01                 | 23.04                    | 22.94                  | 24.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 0         | 23.03                 | 23.00                    | 22.93                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 69        | 23.02                 | 23.02                    | 22.96                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 138       | 22.90                 | 22.95                    | 22.89                  |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         | 23.02                 | 23.00                    | 22.92                  | 24.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         | 23.05                 | 23.13                    | 22.99                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 22.83                 | 22.89                    | 22.81                  |                     |          |  |
| 100               | QPSK       | 1       | 271       | 23.04                 | 23.04                    | 22.97                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 22.83                 | 22.87                    | 22.77                  | 24.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        | 23.03                 | 23.10                    | 22.95                  |                     |          |  |
| 100               | QPSK       | 135     | 138       | 22.91                 | 22.98                    | 22.87                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 22.93                 | 23.08                    | 22.91                  |                     |          |  |
| 100               | 16QAM      | 1       | 1         | 22.55                 | 22.64                    | 22.62                  | 24.0                | 0.0      |  |
| 100               | 8QAM       | 1       | 1         | 22.91                 | 22.91                    | 22.81                  | 24.0                | 0.0      |  |
| 100               | 25QAM      | 1       | 1         | 21.54                 | 21.52                    | 21.50                  | 22.5                | 1.5      |  |
| Channel           |            |         |           | 648668                | 656000                   | 662332                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 22.97                 | 23.11                    | 22.85                  |                     |          |  |
| Channel           |            |         |           | 648334                | 656000                   | 662666                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 22.96                 | 23.01                    | 22.97                  |                     |          |  |
| Channel           |            |         |           | 648000                | 656000                   | 663000                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 22.93                 | 23.10                    | 22.90                  |                     |          |  |
| Channel           |            |         |           | 647668                | 656000                   | 663332                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 23.01                 | 23.09                    | 23.00                  |                     |          |  |
| Channel           |            |         |           | 648334                | 656000                   | 663666                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.98                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 23.01                 | 23.03                    | 22.89                  |                     |          |  |
| Channel           |            |         |           | 648000                | 656000                   | 664000                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 23.09                 | 23.04                    | 23.01                  |                     |          |  |
| Channel           |            |         |           | 647668                | 656000                   | 664332                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 23.04                 | 23.09                    | 23.01                  |                     |          |  |
| Channel           |            |         |           | 647500                | 656000                   | 664500                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3712.5                | 3840                     | 3972.5                 |                     |          |  |
| 25                | QPSK       | 1       | 1         | 23.00                 | 23.06                    | 22.94                  |                     |          |  |
| Channel           |            |         |           | 647334                | 656000                   | 664666                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 23.05                 | 23.05                    | 22.88                  |                     |          |  |
| Channel           |            |         |           | 647168                | 656000                   | 664832                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 23.09                 | 23.02                    | 22.93                  |                     |          |  |
| Channel           |            |         |           | 647000                | 656000                   | 665000                 | 24.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                | PI2 BPSK   | 1       | 1         | 23.06                 | 23.12                    | 22.91                  |                     |          |  |

| Part27O_n77(HPUE)_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Channel                 |            |         |           | 650000                | 656000                   | 662000                 | 27.0                | 0.0      |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 26.00                 | 26.05                    | 25.94                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       | 25.98                 | 26.03                    | 25.91                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       | 25.96                 | 25.97                    | 25.92                  | 26.5                | 0.5      |  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         | 25.98                 | 25.46                    | 25.35                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 69        | 25.92                 | 26.01                    | 25.89                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 138       | 25.49                 | 25.45                    | 25.43                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         | 25.42                 | 25.44                    | 25.47                  | 26.5                | 0.5      |  |                     |          |  |
| 100                     | QPSK       | 1       | 1         | 26.04                 | 26.07                    | 25.98                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 26.95                 | 25.99                    | 25.95                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 25.99                 | 25.99                    | 25.92                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 24.96                 | 24.93                    | 24.89                  | 27.0                | 0.0      |  |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 26.00                 | 26.04                    | 25.95                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 24.84                 | 24.87                    | 24.84                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 24.88                 | 25.01                    | 24.92                  |                     |          |  |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 24.72                 | 24.68                    | 24.60                  | 26.0                | 1.0      |  |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 23.12                 | 23.24                    | 23.13                  |                     |          |  |                     |          |  |
| 100                     | 256QAM     | 1       | 1         | 22.38                 | 22.48                    | 22.45                  |                     |          |  |                     |          |  |
| 100                     | 256QAM     | 1       | 1         | 22.38                 | 22.48                    | 22.45                  |                     |          |  |                     |          |  |
| Channel                 |            |         |           | 648668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 25.92                 | 26.03                    | 25.86                  | 27.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 648334                | 656000                   | 665666                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3745.01               | 3840                     | 3935.99                |                     |          |  |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 25.93                 | 26.04                    | 26.01                  |                     |          |  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 648000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 25.92                 | 25.98                    | 25.92                  | 27.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 648668                | 656000                   | 663332                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3745.02               | 3840                     | 3945.98                |                     |          |  |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 26.01                 | 25.97                    | 25.91                  |                     |          |  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3745.01               | 3840                     | 3964.99                |                     |          |  |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 25.99                 | 25.95                    | 25.98                  | 27.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 648000                | 656000                   | 664000                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3740                  | 3840                     | 3960                   |                     |          |  |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 26.00                 | 26.03                    | 25.98                  |                     |          |  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 25.95                 | 25.98                    | 25.95                  | 27.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 647500                | 656000                   | 664500                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |  |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 25.97                 | 25.95                    | 25.98                  |                     |          |  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 647338                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 26.03                 | 26.00                    | 25.98                  | 27.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 647168                | 656000                   | 664832                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 25.91                 | 25.95                    | 25.99                  |                     |          |  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |                     |          |  |
| 10                      | BPSK BPSC  | 1       | 1         | 25.97                 | 25.86                    | 25.87                  | 27.0                | 0.0      |  |                     |          |  |



Part27Q\_n78\_Ant 8

| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 1         | 23.15                 |                          |                        | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 137       | 23.12                 |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 271       | 22.91                 |                          |                        |                     |          |
| 100               | PI2 BPSK   | 135     | 0         | 22.68                 |                          | 23.5                   | 0.5                 |          |
| 100               | PI2 BPSK   | 135     | 69        | 23.13                 |                          | 24.0                   | 0.0                 |          |
| 100               | PI2 BPSK   | 135     | 138       | 22.49                 |                          | 23.5                   | 0.5                 |          |
| 100               | PI2 BPSK   | 270     | 0         | 22.60                 |                          |                        | 24.0                | 0.0      |
| 100               | QPSK       | 1       | 1         | 23.17                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 137       | 23.01                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 271       | 22.86                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 0         | 22.17                 |                          | 24.0                   | 0.0                 |          |
| 100               | QPSK       | 135     | 69        | 23.15                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 138       | 22.01                 |                          |                        |                     |          |
| 100               | QPSK       | 270     | 0         | 22.12                 |                          | 23.0                   | 1.0                 |          |
| 100               | 16QAM      | 1       | 1         | 22.11                 |                          | 23.0                   | 1.0                 |          |
| 100               | 64QAM      | 1       | 1         | 20.47                 |                          | 21.5                   | 2.5                 |          |
| 100               | 256QAM     | 1       | 1         | 18.69                 |                          | 19.5                   | 4.5                 |          |
| Channel           |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3495                  | 3500.01                  | 3505.02                | 24.0                | 0.0      |
| 90                | QPSK       | 1       | 1         | 23.07                 | 23.15                    | 23.10                  | 24.0                | 0.0      |
| Channel           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3490.02               | 3500.01                  | 3510                   | 24.0                | 0.0      |
| 80                | QPSK       | 1       | 1         | 23.05                 | 23.04                    | 23.07                  | 24.0                | 0.0      |
| Channel           |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3485.01               | 3500.01                  | 3515.01                | 24.0                | 0.0      |
| 70                | QPSK       | 1       | 1         | 23.01                 | 23.03                    | 23.05                  | 24.0                | 0.0      |
| Channel           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3480                  | 3500.01                  | 3520.02                | 24.0                | 0.0      |
| 60                | QPSK       | 1       | 1         | 22.91                 | 22.99                    | 22.94                  | 24.0                | 0.0      |
| Channel           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3475.02               | 3500.01                  | 3525                   | 24.0                | 0.0      |
| 50                | QPSK       | 1       | 1         | 22.93                 | 23.12                    | 22.98                  | 24.0                | 0.0      |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3539.98                | 24.0                | 0.0      |
| 40                | QPSK       | 1       | 1         | 23.00                 | 23.10                    | 22.99                  | 24.0                | 0.0      |
| Channel           |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                | 24.0                | 0.0      |
| 30                | QPSK       | 1       | 1         | 23.03                 | 22.98                    | 22.94                  | 24.0                | 0.0      |
| Channel           |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3462.51               | 3499.98                  | 3537.48                | 24.0                | 0.0      |
| 25                | QPSK       | 1       | 1         | 23.08                 | 23.04                    | 23.00                  | 24.0                | 0.0      |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   | 24.0                | 0.0      |
| 20                | QPSK       | 1       | 1         | 22.92                 | 23.01                    | 23.04                  | 24.0                | 0.0      |
| Channel           |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 24.0                | 0.0      |
| 15                | QPSK       | 1       | 1         | 23.00                 | 23.13                    | 23.10                  | 24.0                | 0.0      |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 24.0                | 0.0      |
| 10                | PI2 BPSK   | 1       | 1         | 22.95                 | 23.07                    | 22.95                  | 24.0                | 0.0      |

Part27O\_n78\_Ant 8

| Part270_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 1         | 23.08                 |                          |                        | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 137       | 23.09                 |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 271       | 22.94                 |                          |                        |                     |          |
| 100               | PI2 BPSK   | 135     | 0         | 22.87                 |                          |                        | 23.5                | 0.5      |
| 100               | PI2 BPSK   | 135     | 69        | 23.08                 |                          |                        | 24.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       | 22.47                 |                          |                        | 23.5                | 0.5      |
| 100               | PI2 BPSK   | 270     | 0         | 22.54                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 1         | 23.12                 |                          |                        | 24.0                | 0.0      |
| 100               | QPSK       | 1       | 137       | 23.10                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 271       | 22.92                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 0         | 22.16                 |                          |                        | 24.0                | 0.0      |
| 100               | QPSK       | 135     | 69        | 23.10                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 138       | 22.00                 |                          |                        |                     |          |
| 100               | QPSK       | 270     | 0         | 22.08                 |                          |                        | 23.0                | 1.0      |
| 100               | 16QAM      | 1       | 1         | 22.01                 |                          |                        | 23.0                | 1.0      |
| 100               | 64QAM      | 1       | 1         | 20.77                 |                          |                        | 21.5                | 2.5      |
| 100               | 256QAM     | 1       | 1         | 19.27                 |                          |                        | 19.5                | 4.5      |
| Channel           |            |         |           | 648668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |
| 90                | QPSK       | 1       | 1         | 23.03                 | 23.08                    | 23.07                  | 24.0                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 650998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.98                |                     |          |
| 80                | QPSK       | 1       | 1         | 23.00                 | 23.07                    | 23.04                  | 24.0                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |
| 70                | QPSK       | 1       | 1         | 22.86                 | 23.02                    | 23.05                  | 24.0                | 0.0      |
| Channel           |            |         |           | 647668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3759.98                |                     |          |
| 60                | QPSK       | 1       | 1         | 22.88                 | 23.07                    | 22.91                  | 24.0                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |
| 50                | QPSK       | 1       | 1         | 22.86                 | 23.07                    | 22.95                  | 24.0                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |
| 40                | QPSK       | 1       | 1         | 22.88                 | 23.03                    | 22.99                  | 24.0                | 0.0      |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |
| 30                | QPSK       | 1       | 1         | 22.86                 | 23.06                    | 22.99                  | 24.0                | 0.0      |
| Channel           |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3712.5                | 3750                     | 3787.5                 |                     |          |
| 25                | QPSK       | 1       | 1         | 22.99                 | 23.05                    | 23.02                  | 24.0                | 0.0      |
| Channel           |            |         |           | 647334                | 650000                   | 652868                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |
| 20                | QPSK       | 1       | 1         | 23.03                 | 22.99                    | 22.90                  | 24.0                | 0.0      |
| Channel           |            |         |           | 647168                | 650000                   | 652932                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |
| 15                | QPSK       | 1       | 1         | 22.94                 | 23.10                    | 22.99                  | 24.0                | 0.0      |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |
| 10                | PI2 BPSK   | 1       | 1         | 22.93                 | 23.08                    | 23.06                  | 24.0                | 0.0      |

Part27Q\_n77\_Ant 9

| Part27Q_n77_Ant 9 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 1         |                       | 18.79                    |                        | 19.5                | 0.0      |
| 100               | PI2 BPSK   | 1       | 137       |                       | 18.45                    |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 271       |                       | 18.36                    |                        |                     |          |
| 100               | PI2 BPSK   | 135     | 0         |                       | 18.68                    |                        | 19.5                | 0.0      |
| 100               | PI2 BPSK   | 135     | 0         |                       | 18.77                    |                        | 19.5                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 18.50                    |                        | 19.5                | 0.0      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 18.68                    |                        |                     |          |
| 100               | QPSK       | 1       | 1         |                       | 18.80                    |                        |                     |          |
| 100               | QPSK       | 1       | 137       |                       | 18.70                    |                        | 19.5                | 0.0      |
| 100               | QPSK       | 1       | 271       |                       | 18.47                    |                        |                     |          |
| 100               | QPSK       | 135     | 0         |                       | 18.74                    |                        |                     |          |
| 100               | QPSK       | 135     | 88        |                       | 18.78                    |                        | 19.5                | 0.0      |
| 100               | QPSK       | 135     | 138       |                       | 18.62                    |                        |                     |          |
| 100               | QPSK       | 270     | 0         |                       | 18.75                    |                        |                     |          |
| 100               | 16QAM      | 1       | 1         |                       | 18.77                    |                        | 19.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         |                       | 18.74                    |                        | 19.5                | 0.0      |
| 100               | 256QAM     | 1       | 1         |                       | 18.71                    |                        | 19.0                | 0.5      |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90                | QPSK       | 1       | 1         | 18.39                 | 18.76                    | 18.45                  | 19.5                | 0.0      |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3509.98                |                     |          |
| 80                | QPSK       | 1       | 1         | 19.34                 | 18.79                    | 18.56                  | 19.5                | 0.0      |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3486.01               | 3499.98                  | 3514.98                |                     |          |
| 70                | QPSK       | 1       | 1         | 18.33                 | 18.71                    | 18.68                  | 19.5                | 0.0      |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3516.98                |                     |          |
| 60                | QPSK       | 1       | 1         | 19.87                 | 18.50                    | 18.50                  | 19.5                | 0.0      |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50                | QPSK       | 1       | 1         | 18.44                 | 18.46                    | 18.61                  | 19.5                | 0.0      |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3525.98                |                     |          |
| 40                | QPSK       | 1       | 1         | 19.35                 | 18.67                    | 18.43                  | 19.5                | 0.0      |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30                | QPSK       | 1       | 1         | 18.44                 | 18.76                    | 18.71                  | 19.5                | 0.0      |
| Channel           |            |         |           | 630634                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3462.31               | 3499.98                  | 3537.48                |                     |          |
| 25                | QPSK       | 1       | 1         | 19.36                 | 18.67                    | 18.54                  | 19.5                | 0.0      |
| Channel           |            |         |           | 630668                | 633332                   | 635800                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3534.98                |                     |          |
| 20                | QPSK       | 1       | 1         | 18.53                 | 18.64                    | 18.56                  | 19.5                | 0.0      |
| Channel           |            |         |           | 630500                | 633332                   | 635866                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.48                |                     |          |
| 15                | QPSK       | 1       | 1         | 19.57                 | 18.69                    | 18.54                  | 19.5                | 0.0      |
| Channel           |            |         |           | 630334                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3456.01               | 3499.98                  | 3544.98                |                     |          |
| 10                | PI2 BPSK   | 1       | 1         | 18.47                 | 18.66                    | 18.64                  | 19.5                | 0.0      |



| Part27Q_n77(HPUe)_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332                |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         |                       | 21.66                    |                        | 22.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 137       |                       | 21.64                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       |                       | 21.57                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         |                       | 21.58                    |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 69        |                       | 21.55                    |                        | 22.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       |                       | 21.62                    |                        | 22.5                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         |                       | 21.75                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 1         |                       | 21.79                    |                        | 22.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 137       |                       | 21.64                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 271       |                       | 21.47                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 21.70                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        |                       | 21.77                    |                        | 22.5                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                       | 21.70                    |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         |                       | 21.75                    |                        | 22.5                | 0.0      |  |
| 100                     | 16QAM      | 1       | 1         |                       | 21.74                    |                        | 22.5                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 21.74                    |                        | 22.5                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         |                       | 21.53                    |                        | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 21.44                 | 21.63                    | 21.67                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 21.47                 | 21.73                    | 21.50                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 21.45                 | 21.43                    | 21.73                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 21.68                 | 21.62                    | 21.44                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 21.43                 | 21.70                    | 21.49                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 21.48                 | 21.70                    | 21.54                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 21.70                 | 21.44                    | 21.68                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 630634                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.01               | 3499.98                  | 3539.98                |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 21.72                 | 21.78                    | 21.70                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 21.65                 | 21.51                    | 21.40                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 21.36                 | 21.71                    | 21.45                  | 22.5                | 0.0      |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                      | PI2 BPSK   | 1       | 1         | 21.54                 | 21.68                    | 21.51                  | 22.5                | 0.0      |  |

| Part27O_n77_Ant 9 |            |         |           |                             |                                |                              |                        |             |  |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel           |            |         |           | 650000                      | 656000                         | 662000                       | 19.5                   | 0.0         |  |
| Frequency (MHz)   |            |         |           | 3750                        | 3840                           | 3930                         |                        |             |  |
| 100               | PI2 BPSK   | 1       | 1         | 18.47                       | 18.62                          | 18.53                        | 19.5                   | 0.0         |  |
| 100               | PI2 BPSK   | 1       | 137       | 18.56                       | 18.31                          | 18.36                        |                        |             |  |
| 100               | PI2 BPSK   | 1       | 271       | 18.61                       | 18.43                          | 18.27                        |                        |             |  |
| 100               | PI2 BPSK   | 135     | 0         | 18.46                       | 18.39                          | 18.35                        |                        |             |  |
| 100               | PI2 BPSK   | 135     | 69        | 18.25                       | 18.58                          | 18.40                        | 19.5                   | 0.0         |  |
| 100               | PI2 BPSK   | 135     | 138       | 18.59                       | 18.27                          | 18.28                        | 19.5                   | 0.0         |  |
| 100               | PI2 BPSK   | 270     | 0         | 18.20                       | 18.40                          | 18.22                        |                        |             |  |
| 100               | QPSK       | 1       | 1         | 18.57                       | 18.64                          | 18.46                        | 19.5                   | 0.0         |  |
| 100               | QPSK       | 1       | 137       | 18.46                       | 18.22                          | 18.09                        |                        |             |  |
| 100               | QPSK       | 1       | 271       | 18.53                       | 18.59                          | 18.24                        |                        |             |  |
| 100               | QPSK       | 135     | 0         | 18.41                       | 18.26                          | 18.38                        |                        |             |  |
| 100               | QPSK       | 135     | 69        | 18.55                       | 18.62                          | 18.44                        | 19.5                   | 0.0         |  |
| 100               | QPSK       | 135     | 138       | 18.27                       | 18.54                          | 18.18                        | 19.5                   | 0.0         |  |
| 100               | QPSK       | 270     | 0         | 18.50                       | 18.60                          | 18.31                        |                        |             |  |
| 100               | 16QAM      | 1       | 1         | 18.37                       | 18.60                          | 18.35                        | 19.5                   | 0.0         |  |
| 100               | 64QAM      | 1       | 1         | 18.48                       | 18.38                          | 18.37                        | 19.5                   | 0.0         |  |
| 100               | 256QAM     | 1       | 1         | 18.37                       | 18.55                          | 18.30                        | 19.0                   | 0.5         |  |
| Channel           |            |         |           | 649668                      | 656000                         | 662332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02                     | 3840                           | 3934.98                      |                        |             |  |
| 90                | QPSK       | 1       | 1         | 18.24                       | 18.33                          | 18.48                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 649334                      | 656000                         | 662666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01                     | 3840                           | 3939.99                      |                        |             |  |
| 80                | QPSK       | 1       | 1         | 18.29                       | 18.53                          | 18.16                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 649000                      | 656000                         | 663000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3735                        | 3840                           | 3945                         |                        |             |  |
| 70                | QPSK       | 1       | 1         | 18.42                       | 18.53                          | 18.45                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 648668                      | 656000                         | 663332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02                     | 3840                           | 3949.98                      |                        |             |  |
| 60                | QPSK       | 1       | 1         | 18.53                       | 18.60                          | 18.41                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 648334                      | 656000                         | 663666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01                     | 3840                           | 3954.99                      |                        |             |  |
| 50                | QPSK       | 1       | 1         | 18.29                       | 18.44                          | 18.27                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 648000                      | 656000                         | 664000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3720                        | 3840                           | 3959                         |                        |             |  |
| 40                | QPSK       | 1       | 1         | 18.32                       | 18.54                          | 18.44                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 647668                      | 656000                         | 664332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02                     | 3840                           | 3964.98                      |                        |             |  |
| 30                | QPSK       | 1       | 1         | 18.20                       | 18.29                          | 18.51                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 647500                      | 656000                         | 664500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01                     | 3840                           | 3971.5                       |                        |             |  |
| 25                | QPSK       | 1       | 1         | 18.52                       | 18.62                          | 18.45                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 647334                      | 656000                         | 664666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01                     | 3840                           | 3969.99                      |                        |             |  |
| 20                | QPSK       | 1       | 1         | 18.36                       | 18.26                          | 18.19                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 647168                      | 656000                         | 664832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52                     | 3840                           | 3972.48                      |                        |             |  |
| 15                | QPSK       | 1       | 1         | 18.37                       | 18.61                          | 18.29                        | 19.5                   | 0.0         |  |
| Channel           |            |         |           | 647000                      | 656000                         | 665000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3705                        | 3840                           | 3975                         |                        |             |  |
| 10                | PI2 BPSK   | 1       | 1         | 18.38                       | 18.48                          | 18.29                        | 19.5                   | 0.0         |  |

| Part27O_n77(HPUe)_Ant 9 |            |         |           |                          |                             |                           |                        |             |  |
|-------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                 |            |         |           | 650000                   | 650000                      | 662000                    |                        |             |  |
| Frequency (MHz)         |            |         |           | 3750                     | 3840                        | 3930                      |                        |             |  |
| 100                     | PI2 BPSK   | 1       | 1         | 21.34                    | 21.43                       | 21.37                     | 22.5                   | 0.0         |  |
| 100                     | PI2 BPSK   | 1       | 137       | 21.29                    | 21.46                       | 21.29                     |                        |             |  |
| 100                     | PI2 BPSK   | 1       | 271       | 21.54                    | 21.55                       | 21.22                     |                        |             |  |
| 100                     | PI2 BPSK   | 135     | 0         | 21.47                    | 21.46                       | 21.48                     |                        |             |  |
| 100                     | PI2 BPSK   | 135     | 0         | 21.36                    | 21.53                       | 21.46                     | 22.5                   | 0.0         |  |
| 100                     | PI2 BPSK   | 135     | 138       | 21.25                    | 21.40                       | 21.39                     | 22.5                   | 0.0         |  |
| 100                     | PI2 BPSK   | 270     | 0         | 21.29                    | 21.60                       | 21.24                     |                        |             |  |
| 100                     | QPSK       | 1       | 1         | 21.61                    | 21.68                       | 21.50                     | 22.5                   |             |  |
| 100                     | QPSK       | 1       | 137       | 21.40                    | 21.16                       | 21.21                     |                        |             |  |
| 100                     | QPSK       | 1       | 271       | 21.26                    | 21.07                       | 21.37                     |                        |             |  |
| 100                     | QPSK       | 135     | 0         | 21.35                    | 21.46                       | 21.21                     |                        |             |  |
| 100                     | QPSK       | 135     | 69        | 21.58                    | 21.64                       | 21.47                     | 22.5                   | 0.0         |  |
| 100                     | QPSK       | 135     | 138       | 21.50                    | 21.61                       | 21.43                     |                        |             |  |
| 100                     | QPSK       | 270     | 0         | 21.47                    | 21.62                       | 21.27                     |                        |             |  |
| 100                     | 16QAM      | 1       | 1         | 21.13                    | 21.15                       | 21.27                     | 22.5                   | 0.0         |  |
| 100                     | 64QAM      | 1       | 1         | 21.36                    | 21.38                       | 21.52                     | 22.5                   | 0.0         |  |
| 100                     | 256QAM     | 1       | 1         | 21.16                    | 21.25                       | 21.42                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 646688                   | 650000                      | 652332                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3745.02                  | 3840                        | 3934.98                   |                        |             |  |
| 90                      | QPSK       | 1       | 1         | 21.38                    | 21.34                       | 21.32                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 643334                   | 650000                      | 652698                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3740.01                  | 3840                        | 3935.99                   |                        |             |  |
| 80                      | QPSK       | 1       | 1         | 21.27                    | 21.45                       | 21.26                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 640000                   | 650000                      | 653000                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3735                     | 3840                        | 3945                      |                        |             |  |
| 70                      | QPSK       | 1       | 1         | 21.31                    | 21.45                       | 21.22                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 646688                   | 650000                      | 653332                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3740.02                  | 3840                        | 3945.98                   |                        |             |  |
| 60                      | QPSK       | 1       | 1         | 21.13                    | 21.43                       | 21.26                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 643334                   | 650000                      | 653698                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3725.01                  | 3840                        | 3954.99                   |                        |             |  |
| 50                      | QPSK       | 1       | 1         | 21.20                    | 21.29                       | 21.17                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 640000                   | 650000                      | 654000                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3720                     | 3840                        | 3950                      |                        |             |  |
| 40                      | QPSK       | 1       | 1         | 21.11                    | 21.43                       | 21.13                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 647688                   | 650000                      | 654332                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3715.02                  | 3840                        | 3954.98                   |                        |             |  |
| 30                      | QPSK       | 1       | 1         | 21.13                    | 21.36                       | 21.30                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 647500                   | 650000                      | 654500                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3712.5                   | 3840                        | 3957.5                    |                        |             |  |
| 25                      | QPSK       | 1       | 1         | 21.36                    | 21.27                       | 21.41                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 647334                   | 650000                      | 654698                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3710.01                  | 3840                        | 3959.99                   |                        |             |  |
| 20                      | QPSK       | 1       | 1         | 21.19                    | 21.34                       | 21.48                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 647168                   | 650000                      | 654832                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3707.52                  | 3840                        | 3972.48                   |                        |             |  |
| 15                      | QPSK       | 1       | 1         | 21.42                    | 21.29                       | 21.25                     | 22.5                   | 0.0         |  |
| Channel                 |            |         |           | 647000                   | 650000                      | 655000                    | Tune-up limit          | MPR         |  |
| Frequency (MHz)         |            |         |           | 3705                     | 3840                        | 3975                      |                        |             |  |
| 10                      | PI2 BPSK   | 1       | 1         | 21.42                    | 21.26                       | 21.26                     | 22.5                   | 0.0         |  |

| Part27Q_n78_Ant 9 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |     |
| Frequency (MHz)   |            |         |           | 3496.48               |                          |                        |                     |          |     |
| 100               | PI/2 BPSK  | 1       | 1         | 18.71                 |                          |                        |                     |          |     |
| 100               | PI/2 BPSK  | 1       | 137       | 18.61                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | PI/2 BPSK  | 1       | 271       | 18.63                 |                          |                        |                     |          |     |
| 100               | PI/2 BPSK  | 135     | 0         | 18.72                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | PI/2 BPSK  | 135     | 69        | 18.41                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | PI/2 BPSK  | 135     | 138       | 18.32                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | PI/2 BPSK  | 270     | 0         | 18.46                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | QPSK       | 1       | 1         | 18.76                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | QPSK       | 1       | 137       | 18.41                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | QPSK       | 1       | 271       | 18.37                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | QPSK       | 135     | 0         | 18.57                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | QPSK       | 135     | 69        | 18.75                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | QPSK       | 135     | 138       | 18.61                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | QPSK       | 270     | 0         | 18.73                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | 16QAM      | 1       | 1         | 18.75                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | 64QAM      | 1       | 1         | 18.72                 |                          |                        |                     | 19.5     | 0.0 |
| 100               | 256QAM     | 1       | 1         | 18.70                 |                          |                        |                     | 19.5     | 0.0 |
| Channel           |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3495                  | 3500.01                  | 3505.02                |                     |          |     |
| 90                | QPSK       | 1       | 1         | 18.38                 | 18.50                    | 18.38                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |     |
| 80                | QPSK       | 1       | 1         | 18.31                 | 18.62                    | 18.28                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3485.01               | 3500.01                  | 3515.01                |                     |          |     |
| 70                | QPSK       | 1       | 1         | 18.24                 | 18.38                    | 18.60                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |     |
| 60                | QPSK       | 1       | 1         | 18.42                 | 18.38                    | 18.38                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |     |
| 50                | QPSK       | 1       | 1         | 18.25                 | 18.41                    | 18.54                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |     |
| 40                | QPSK       | 1       | 1         | 18.38                 | 18.70                    | 18.52                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |     |
| 30                | QPSK       | 1       | 1         | 18.22                 | 18.62                    | 18.43                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 630634                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3462.51               | 3499.98                  | 3537.49                |                     |          |     |
| 25                | QPSK       | 1       | 1         | 18.43                 | 18.54                    | 18.43                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |     |
| 20                | QPSK       | 1       | 1         | 18.30                 | 18.40                    | 18.60                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |     |
| 15                | QPSK       | 1       | 1         | 18.46                 | 18.66                    | 18.38                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |     |
| 10                | PI/2 BPSK  | 1       | 1         | 18.51                 | 18.54                    | 18.42                  | 19.5                | 0.0      |     |

| Part27O_n78_Ant 9 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |     |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |     |
| 100               | PI/2 BPSK  | 1       | 1         |                       | 18.58                    |                        |                     |          |     |
| 100               | PI/2 BPSK  | 1       | 137       |                       | 18.46                    |                        | 19.5                |          | 0.0 |
| 100               | PI/2 BPSK  | 1       | 271       |                       | 18.14                    |                        |                     |          |     |
| 100               | PI/2 BPSK  | 135     | 0         |                       | 18.62                    |                        | 19.5                |          | 0.0 |
| 100               | PI/2 BPSK  | 135     | 69        |                       | 18.29                    |                        | 19.5                |          | 0.0 |
| 100               | PI/2 BPSK  | 135     | 138       |                       | 18.22                    |                        | 19.5                |          | 0.0 |
| 100               | PI/2 BPSK  | 270     | 0         |                       | 18.35                    |                        |                     |          |     |
| 100               | QPSK       | 1       | 1         |                       | 18.62                    |                        |                     |          |     |
| 100               | QPSK       | 1       | 137       |                       | 18.25                    |                        | 19.5                |          | 0.0 |
| 100               | QPSK       | 1       | 271       |                       | 18.34                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 0         |                       | 18.60                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 69        |                       | 18.42                    |                        | 19.5                |          | 0.0 |
| 100               | QPSK       | 135     | 138       |                       | 18.52                    |                        |                     |          |     |
| 100               | QPSK       | 270     | 0         |                       | 18.58                    |                        | 19.5                |          | 0.0 |
| 100               | 16QAM      | 1       | 1         |                       | 18.56                    |                        | 19.5                |          | 0.0 |
| 100               | 64QAM      | 1       | 1         |                       | 18.55                    |                        | 19.5                |          | 0.0 |
| 100               | 256QAM     | 1       | 1         |                       | 18.51                    |                        | 19.5                |          | 0.0 |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |     |
| 90                | QPSK       | 1       | 1         | 18.38                 | 18.25                    | 18.48                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |     |
| 80                | QPSK       | 1       | 1         | 18.30                 | 18.52                    | 18.53                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |     |
| 70                | QPSK       | 1       | 1         | 18.35                 | 18.43                    | 18.33                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |     |
| 60                | QPSK       | 1       | 1         | 18.00                 | 18.25                    | 18.42                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |     |
| 50                | QPSK       | 1       | 1         | 18.58                 | 18.57                    | 18.32                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |     |
| 40                | QPSK       | 1       | 1         | 18.28                 | 18.29                    | 18.47                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |     |
| 30                | QPSK       | 1       | 1         | 18.39                 | 18.38                    | 18.46                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3724.5                | 3750                     | 3787.5                 |                     |          |     |
| 25                | QPSK       | 1       | 1         | 18.31                 | 18.29                    | 18.34                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3788.99                |                     |          |     |
| 20                | QPSK       | 1       | 1         | 18.26                 | 18.59                    | 18.29                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |     |
| 15                | QPSK       | 1       | 1         | 18.58                 | 18.33                    | 18.33                  | 19.5                | 0.0      |     |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |     |
| 10                | PI/2 BPSK  | 1       | 1         | 18.53                 | 18.46                    | 18.36                  | 19.5                | 0.0      |     |



Reduced Power Mode for DSI3

n2\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 17.5                | 0.0      |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 16.43                 | 16.47                    | 16.51                  | 17.5                | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 16.56                 | 16.65                    | 16.65                  |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 16.57                 | 16.54                    | 16.58                  | 17.5                | 0.0      |
| 20              | PI2 BPSK   | 50      | 0         | 16.64                 | 16.65                    | 16.47                  |                     |          |
| 20              | PI2 BPSK   | 50      | 28        | 16.56                 | 16.57                    | 16.51                  | 17.5                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 16.55                 | 16.52                    | 16.56                  |                     |          |
| 20              | PI2 BPSK   | 100     | 0         | 16.63                 | 16.62                    | 16.52                  | 17.5                | 0.0      |
| 20              | QPSK       | 1       | 1         | 16.45                 | 16.72                    | 16.52                  |                     |          |
| 20              | QPSK       | 1       | 53        | 16.41                 | 16.60                    | 16.28                  | 17.5                | 0.0      |
| 20              | QPSK       | 1       | 104       | 16.42                 | 16.57                    | 16.44                  |                     |          |
| 20              | QPSK       | 50      | 0         | 16.47                 | 16.36                    | 16.46                  | 17.5                | 0.0      |
| 20              | QPSK       | 50      | 28        | 16.50                 | 16.63                    | 16.60                  |                     |          |
| 20              | QPSK       | 50      | 56        | 16.48                 | 16.80                    | 16.45                  | 17.5                | 0.0      |
| 20              | QPSK       | 100     | 0         | 16.55                 | 16.61                    | 16.58                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 16.32                 | 16.33                    | 16.35                  | 17.5                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 16.28                 | 16.40                    | 16.30                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 16.17                 | 16.27                    | 16.46                  | 17.5                | 0.0      |
| Channel         |            |         |           | 371000                | 376000                   | 380500                 |                     |          |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 | 17.5                | 0.0      |
| 15              | QPSK       | 1       | 1         | 16.37                 | 16.59                    | 16.56                  |                     |          |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 17.5                | 0.0      |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |
| 10              | QPSK       | 1       | 1         | 16.56                 | 16.61                    | 16.31                  | 17.5                | 0.0      |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 |                     |          |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 | 17.5                | 0.0      |
| 5               | QPSK       | 1       | 1         | 16.31                 | 16.64                    | 16.39                  |                     |          |

n2\_Ant 2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 22.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 20.92                 | 20.92                    | 21.11                  | 22.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 21.01                 | 21.23                    | 21.18                  |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 21.02                 | 21.15                    | 21.10                  | 22.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 0         | 21.12                 | 21.08                    | 21.05                  |                     |          |
| 20              | PI2 BPSK   | 50      | 28        | 21.04                 | 21.18                    | 21.12                  | 22.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 21.08                 | 21.21                    | 20.98                  |                     |          |
| 20              | PI2 BPSK   | 100     | 0         | 21.08                 | 21.14                    | 21.19                  | 22.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 21.05                 | 21.27                    | 21.20                  |                     |          |
| 20              | QPSK       | 1       | 53        | 20.99                 | 21.13                    | 21.08                  | 22.0                | 0.0      |
| 20              | QPSK       | 1       | 104       | 20.90                 | 21.12                    | 21.16                  |                     |          |
| 20              | QPSK       | 50      | 0         | 21.02                 | 21.06                    | 21.09                  | 22.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 21.05                 | 21.25                    | 21.22                  |                     |          |
| 20              | QPSK       | 50      | 56        | 20.97                 | 21.12                    | 20.78                  | 22.0                | 0.0      |
| 20              | QPSK       | 100     | 0         | 20.97                 | 21.23                    | 20.95                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 21.03                 | 20.96                    | 20.91                  | 22.0                | 0.0      |
| 20              | 64QAM      | 1       | 1         | 20.92                 | 21.02                    | 20.91                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 18.63                 | 18.64                    | 18.71                  | 19.5                | 2.5      |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 |                     |          |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 | 22.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 21.12                 | 21.08                    | 20.92                  |                     |          |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | 22.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |
| 10              | QPSK       | 1       | 1         | 20.86                 | 21.05                    | 21.04                  | 22.0                | 0.0      |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 |                     |          |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 | 22.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 20.84                 | 21.15                    | 21.19                  |                     |          |

n5\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 166800                | 167300                   | 167800                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 23.17                 | 23.09                    | 23.14                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 23.17                 | 23.12                    | 23.16                  |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 22.67                 | 22.69                    | 22.32                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 0         | 22.59                 | 22.67                    | 22.62                  |                     |          |
| 20              | PI2 BPSK   | 50      | 28        | 22.58                 | 22.57                    | 22.65                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 56        | 22.63                 | 22.48                    | 22.45                  |                     |          |
| 20              | PI2 BPSK   | 100     | 0         | 22.71                 | 22.63                    | 22.81                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.16                    | 23.16                  |                     |          |
| 20              | QPSK       | 1       | 53        | 23.08                 | 23.07                    | 23.12                  | 23.0                | 1.0      |
| 20              | QPSK       | 1       | 104       | 22.19                 | 22.20                    | 22.28                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.09                 | 22.11                    | 22.10                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 28        | 22.10                 | 22.15                    | 22.14                  |                     |          |
| 20              | QPSK       | 50      | 56        | 22.06                 | 21.93                    | 21.96                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.14                 | 22.20                    | 22.18                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 22.28                 | 22.28                    | 22.09                  | 23.0                | 1.0      |
| 20              | 64QAM      | 1       | 1         | 20.90                 | 20.67                    | 20.71                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 18.41                 | 18.48                    | 18.40                  | 19.5                | 4.5      |
| Channel         |            |         |           | 165300                | 167300                   | 168300                 |                     |          |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 23.14                 | 23.11                    | 22.94                  |                     |          |
| Channel         |            |         |           | 165800                | 167300                   | 168800                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10              | QPSK       | 1       | 1         | 23.14                 | 23.09                    | 23.00                  | 24.0                | 0.0      |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 |                     |          |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.09                 | 23.06                    | 23.00                  |                     |          |



n5\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 166800                      | 167300                         | 167800                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 834                         | 836.5                          | 839                          |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 23.10                       | 23.09                          | 23.08                        |                        |             |
| 20              | PI2 BPSK   | 1       | 53        | 23.05                       | 23.05                          | 23.14                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 1       | 104       | 23.07                       | 23.10                          | 22.27                        |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.03                       | 22.02                          | 22.95                        |                        |             |
| 20              | PI2 BPSK   | 50      | 28        | 23.05                       | 23.01                          | 23.14                        | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 50      | 56        | 22.98                       | 22.83                          | 22.40                        | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 100     | 0         | 22.81                       | 22.79                          | 22.77                        |                        |             |
| 20              | QPSK       | 1       | 1         | 23.04                       | 23.15                          | 23.05                        |                        |             |
| 20              | QPSK       | 1       | 53        | 22.99                       | 23.06                          | 23.01                        | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 104       | 22.98                       | 22.82                          | 22.81                        |                        |             |
| 20              | QPSK       | 50      | 0         | 22.13                       | 22.11                          | 22.11                        | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 22.95                       | 23.07                          | 22.97                        | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 21.99                       | 21.97                          | 21.90                        | 23.0                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 22.00                       | 22.04                          | 22.03                        |                        |             |
| 20              | 16QAM      | 1       | 1         | 22.13                       | 22.10                          | 22.08                        | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.45                       | 20.47                          | 20.45                        | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 18.59                       | 18.62                          | 18.60                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 166800                      | 167300                         | 168800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 831.5                       | 836.5                          | 841.5                        |                        |             |
| 15              | QPSK       | 1       | 1         | 22.92                       | 23.08                          | 23.10                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 166800                      | 167300                         | 168800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 829                         | 836.5                          | 844                          |                        |             |
| 10              | QPSK       | 1       | 1         | 22.88                       | 23.11                          | 22.95                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 165300                      | 167300                         | 169300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 828.5                       | 836.5                          | 846.5                        |                        |             |
| 5               | QPSK       | 1       | 1         | 23.03                       | 22.97                          | 22.90                        | 24.0                   | 0.0         |

n7\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 504000                      | 507000                         | 510000                       | 15.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 2520                        | 2535                           | 2550                         |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 14.18                       | 14.22                          | 14.15                        |                        |             |
| 40              | PI2 BPSK   | 1       | 108       | 14.29                       | 14.26                          | 14.26                        | 15.5                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 214       | 14.05                       | 14.13                          | 14.08                        |                        |             |
| 40              | PI2 BPSK   | 108     | 0         | 14.26                       | 14.27                          | 14.18                        |                        |             |
| 40              | PI2 BPSK   | 108     | 54        | 14.02                       | 14.08                          | 14.04                        | 15.5                   | 0.0         |
| 40              | PI2 BPSK   | 108     | 108       | 14.08                       | 14.20                          | 14.13                        | 15.5                   | 0.0         |
| 40              | PI2 BPSK   | 216     | 0         | 14.03                       | 14.15                          | 14.15                        |                        |             |
| 40              | QPSK       | 1       | 1         | 14.21                       | 14.31                          | 14.19                        |                        |             |
| 40              | QPSK       | 1       | 108       | 14.18                       | 14.26                          | 14.15                        | 15.5                   | 0.0         |
| 40              | QPSK       | 1       | 214       | 14.18                       | 14.25                          | 14.14                        |                        |             |
| 40              | QPSK       | 108     | 0         | 14.12                       | 14.24                          | 14.13                        | 15.5                   | 0.0         |
| 40              | QPSK       | 108     | 54        | 14.16                       | 14.29                          | 14.17                        | 15.5                   | 0.0         |
| 40              | QPSK       | 108     | 108       | 14.12                       | 14.21                          | 14.08                        | 15.5                   | 0.0         |
| 40              | QPSK       | 216     | 0         | 14.05                       | 14.27                          | 13.87                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 14.22                       | 14.15                          | 14.23                        | 15.5                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 13.76                       | 13.82                          | 13.76                        | 15.5                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 14.10                       | 14.21                          | 14.20                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 505000                      | 507000                         | 511000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2515                        | 2535                           | 2555                         |                        |             |
| 30              | QPSK       | 1       | 1         | 14.19                       | 14.28                          | 14.19                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 502900                      | 507000                         | 511500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2512.5                      | 2535                           | 2557.5                       |                        |             |
| 25              | QPSK       | 1       | 1         | 14.21                       | 14.19                          | 14.08                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 502600                      | 507000                         | 512000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2510                        | 2535                           | 2550                         |                        |             |
| 20              | QPSK       | 1       | 1         | 14.17                       | 14.19                          | 14.09                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 501500                      | 507000                         | 512500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                        |             |
| 15              | QPSK       | 1       | 1         | 14.09                       | 14.28                          | 14.12                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 501000                      | 507000                         | 513000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2555                         |                        |             |
| 10              | QPSK       | 1       | 1         | 14.11                       | 14.19                          | 14.14                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 500500                      | 507000                         | 513500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                        |             |
| 5               | QPSK       | 1       | 1         | 14.15                       | 14.21                          | 14.09                        | 15.5                   | 0.0         |

n12\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 141300                      | 141500                         | 141700                       | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 706.5                       | 707.5                          | 708.5                        |                        |             |
| 15              | PI2 BPSK   | 1       | 1         | 23.15                       | 23.14                          | 23.16                        |                        |             |
| 15              | PI2 BPSK   | 1       | 40        | 23.11                       | 23.11                          | 23.16                        | 23.5                   | 0.5         |
| 15              | PI2 BPSK   | 1       | 77        | 23.17                       | 23.11                          | 23.19                        |                        |             |
| 15              | PI2 BPSK   | 36      | 0         | 22.81                       | 22.72                          | 22.69                        |                        |             |
| 15              | PI2 BPSK   | 36      | 22        | 23.11                       | 23.17                          | 23.16                        | 24.0                   | 0.0         |
| 15              | PI2 BPSK   | 36      | 43        | 22.78                       | 22.78                          | 22.78                        | 23.5                   | 0.5         |
| 15              | PI2 BPSK   | 75      | 0         | 22.79                       | 22.72                          | 22.73                        |                        |             |
| 15              | QPSK       | 1       | 1         | 23.16                       | 23.22                          | 23.16                        |                        |             |
| 15              | QPSK       | 1       | 40        | 23.12                       | 23.20                          | 23.17                        | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 77        | 23.15                       | 23.18                          | 23.14                        |                        |             |
| 15              | QPSK       | 36      | 0         | 22.16                       | 22.16                          | 22.19                        | 23.0                   | 1.0         |
| 15              | QPSK       | 36      | 22        | 23.13                       | 23.20                          | 23.16                        | 24.0                   | 0.0         |
| 15              | QPSK       | 36      | 43        | 22.27                       | 22.11                          | 22.24                        | 23.0                   | 1.0         |
| 15              | QPSK       | 75      | 0         | 22.24                       | 22.27                          | 22.28                        |                        |             |
| 15              | 16QAM      | 1       | 1         | 21.67                       | 22.15                          | 22.45                        | 23.0                   | 1.0         |
| 15              | 64QAM      | 1       | 1         | 20.68                       | 20.86                          | 21.02                        | 21.5                   | 2.5         |
| 15              | 256QAM     | 1       | 1         | 18.29                       | 18.24                          | 18.52                        | 19.5                   | 4.5         |
| Channel         |            |         |           | 140500                      | 141500                         | 142200                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 704                         | 707.5                          | 711                          |                        |             |
| 10              | QPSK       | 1       | 1         | 23.05                       | 23.12                          | 23.02                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 140300                      | 141500                         | 142700                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 701.5                       | 707.5                          | 713.5                        |                        |             |
| 5               | QPSK       | 1       | 1         | 23.02                       | 23.16                          | 23.07                        | 24.0                   | 0.0         |



| n14_Ant 0       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 158600                | 793                      |                        |                     |          |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         |                       | 22.80                    |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 26        |                       | 22.77                    |                        | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 50        |                       | 22.70                    |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         |                       | 22.20                    |                        | 23.5                | 0.5      |
| 10              | PI2 BPSK   | 25      | 14        |                       | 22.82                    |                        | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        |                       | 22.15                    |                        |                     |          |
| 10              | PI2 BPSK   | 50      | 0         |                       | 22.29                    |                        | 23.5                | 0.5      |
| 10              | QPSK       | 1       | 1         |                       | 22.83                    |                        |                     |          |
| 10              | QPSK       | 1       | 26        |                       | 22.62                    |                        | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 50        |                       | 22.64                    |                        |                     |          |
| 10              | QPSK       | 25      | 0         |                       | 21.76                    |                        | 23.0                | 1.0      |
| 10              | QPSK       | 25      | 14        |                       | 22.81                    |                        | 24.0                | 0.0      |
| 10              | QPSK       | 25      | 27        |                       | 21.73                    |                        |                     |          |
| 10              | QPSK       | 50      | 0         |                       | 21.78                    |                        | 23.0                | 1.0      |
| 10              | 16QAM      | 1       | 1         |                       | 22.13                    |                        | 23.0                | 1.0      |
| 10              | 64QAM      | 1       | 1         |                       | 20.62                    |                        | 21.5                | 2.5      |
| 10              | 256QAM     | 1       | 1         |                       | 18.06                    |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 158100                | 158600                   | 159100                 |                     |          |
| Frequency (MHz) |            |         |           | 790.5                 | 793                      | 795.5                  | Tune-up limit (dBm) | MPR (dB) |
| 5               | QPSK       | 1       | 1         | 22.80                 | 22.78                    | 22.67                  | 24.0                | 0.0      |

| n25_Ant 1       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 372000                | 376000                   | 381000                 |                     |          |
| Frequency (MHz) |            |         |           | 1860                  | 1882.5                   | 1905                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         |                       | 16.46                    | 16.64                  | 16.84               |          |
| 20              | PI2 BPSK   | 1       | 53        |                       | 16.68                    | 16.72                  | 16.72               |          |
| 20              | PI2 BPSK   | 1       | 104       |                       | 16.65                    | 16.65                  | 16.64               |          |
| 20              | PI2 BPSK   | 50      | 0         |                       | 16.69                    | 16.74                  | 16.82               | 17.5     |
| 20              | PI2 BPSK   | 50      | 26        |                       | 16.63                    | 16.66                  | 16.55               | 17.5     |
| 20              | PI2 BPSK   | 50      | 56        |                       | 16.58                    | 16.67                  | 16.66               |          |
| 20              | PI2 BPSK   | 100     | 0         |                       | 16.65                    | 16.68                  | 16.67               | 17.5     |
| 20              | QPSK       | 1       | 1         |                       | 16.63                    | 16.77                  | 16.65               |          |
| 20              | QPSK       | 1       | 53        |                       | 16.44                    | 16.67                  | 16.36               | 17.5     |
| 20              | QPSK       | 1       | 104       |                       | 16.53                    | 16.66                  | 16.54               |          |
| 20              | QPSK       | 50      | 0         |                       | 16.58                    | 16.67                  | 16.57               | 17.5     |
| 20              | QPSK       | 50      | 26        |                       | 16.61                    | 16.75                  | 16.62               | 17.5     |
| 20              | QPSK       | 50      | 56        |                       | 16.58                    | 16.68                  | 16.55               | 17.5     |
| 20              | QPSK       | 100     | 0         |                       | 16.69                    | 16.74                  | 16.66               |          |
| 20              | 16QAM      | 1       | 1         |                       | 16.33                    | 16.44                  | 16.39               | 17.5     |
| 20              | 64QAM      | 1       | 1         |                       | 16.47                    | 16.52                  | 16.52               | 17.5     |
| 20              | 256QAM     | 1       | 1         |                       | 16.44                    | 16.42                  | 16.40               | 17.5     |
| Channel         |            |         |           | 371600                | 376000                   | 381500                 |                     |          |
| Frequency (MHz) |            |         |           | 1857.5                | 1882.5                   | 1907.5                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 16.57                 | 16.74                    | 16.63                  | 17.5                | 0.0      |
| Channel         |            |         |           | 371000                | 376000                   | 382000                 |                     |          |
| Frequency (MHz) |            |         |           | 1855                  | 1882.5                   | 1910                   | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 16.58                 | 16.74                    | 16.58                  | 17.5                | 0.0      |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 |                     |          |
| Frequency (MHz) |            |         |           | 1852.5                | 1882.5                   | 1912.5                 | Tune-up limit (dBm) | MPR (dB) |
| 5               | QPSK       | 1       | 1         | 16.50                 | 16.71                    | 16.61                  | 17.5                | 0.0      |

| n25_Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 372000                | 376500                   | 381000                 |                     |          |
| Frequency (MHz) |            |         |           | 1860                  | 1882.5                   | 1905                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         |                       | 21.12                    | 21.22                  | 21.18               |          |
| 20              | PI2 BPSK   | 1       | 53        |                       | 21.25                    | 21.30                  | 21.28               |          |
| 20              | PI2 BPSK   | 1       | 104       |                       | 21.18                    | 21.26                  | 21.24               |          |
| 20              | PI2 BPSK   | 50      | 0         |                       | 21.20                    | 21.24                  | 21.23               | 22.0     |
| 20              | PI2 BPSK   | 50      | 26        |                       | 21.17                    | 21.25                  | 21.20               | 22.0     |
| 20              | PI2 BPSK   | 50      | 56        |                       | 21.17                    | 21.27                  | 21.15               |          |
| 20              | PI2 BPSK   | 100     | 0         |                       | 21.23                    | 21.28                  | 21.27               | 22.0     |
| 20              | QPSK       | 1       | 1         |                       | 21.25                    | 21.36                  | 21.31               |          |
| 20              | QPSK       | 1       | 53        |                       | 21.14                    | 21.25                  | 21.14               | 22.0     |
| 20              | QPSK       | 1       | 104       |                       | 21.05                    | 21.28                  | 21.28               |          |
| 20              | QPSK       | 50      | 0         |                       | 21.11                    | 21.23                  | 21.19               | 22.0     |
| 20              | QPSK       | 50      | 26        |                       | 21.18                    | 21.34                  | 21.26               | 22.0     |
| 20              | QPSK       | 50      | 56        |                       | 21.15                    | 21.22                  | 20.95               |          |
| 20              | QPSK       | 100     | 0         |                       | 21.14                    | 21.32                  | 21.08               | 22.0     |
| 20              | 16QAM      | 1       | 1         |                       | 21.08                    | 21.09                  | 21.03               | 22.0     |
| 20              | 64QAM      | 1       | 1         |                       | 21.00                    | 21.07                  | 20.95               | 22.0     |
| 20              | 256QAM     | 1       | 1         |                       | 18.75                    | 18.63                  | 18.75               | 19.5     |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 |                     |          |
| Frequency (MHz) |            |         |           | 1857.5                | 1882.5                   | 1907.5                 | Tune-up limit (dBm) | MPR (dB) |
| 15              | QPSK       | 1       | 1         | 20.76                 | 20.78                    | 20.94                  | 22.0                | 0.0      |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 |                     |          |
| Frequency (MHz) |            |         |           | 1855                  | 1882.5                   | 1910                   | Tune-up limit (dBm) | MPR (dB) |
| 10              | QPSK       | 1       | 1         | 20.94                 | 21.09                    | 21.04                  | 22.0                | 0.0      |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 |                     |          |
| Frequency (MHz) |            |         |           | 1852.5                | 1882.5                   | 1912.5                 | Tune-up limit (dBm) | MPR (dB) |
| 5               | QPSK       | 1       | 1         | 20.90                 | 21.04                    | 21.13                  | 22.0                | 0.0      |



| n26_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 164800                | 166300                   | 167800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                 | 23.07                    | 23.01                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 53        | 23.08                 | 23.20                    | 23.14                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 104       | 23.14                 | 23.17                    | 23.19                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.82                 | 22.50                    | 22.57                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 50      | 26        | 23.06                 | 23.13                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.82                 | 22.79                    | 22.82                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.53                 | 22.58                    | 22.68                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.16                 | 23.21                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 23.10                 | 23.12                    | 23.07                  |                     |          |  |
| 20              | QPSK       | 1       | 104       | 23.13                 | 23.18                    | 23.10                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.36                 | 22.07                    | 22.10                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 50      | 26        | 23.16                 | 23.19                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.27                 | 22.31                    | 22.32                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 100     | 0         | 22.09                 | 22.18                    | 22.15                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 22.16                 | 22.16                    | 22.18                  | 23.0                | 1.0      |  |
| 20              | 64QAM      | 1       | 1         | 20.78                 | 20.75                    | 20.69                  | 21.5                | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 18.23                 | 18.26                    | 18.26                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 164300                | 166300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 23.17                 | 23.19                    | 23.01                  |                     |          |  |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 23.14                 | 23.11                    | 22.94                  |                     |          |  |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  | 24.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 23.15                 | 23.17                    | 23.04                  |                     |          |  |

| n26_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 164800                | 166300                   | 167800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                 | 23.15                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 53        | 23.10                 | 23.12                    | 23.10                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 104       | 23.16                 | 23.12                    | 23.15                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.58                 | 22.57                    | 22.50                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 50      | 26        | 23.07                 | 23.12                    | 23.09                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.70                 | 22.74                    | 22.77                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.51                 | 22.83                    | 22.57                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.17                    | 23.11                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 23.12                 | 23.15                    | 23.06                  |                     |          |  |
| 20              | QPSK       | 1       | 104       | 23.07                 | 23.11                    | 23.09                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.03                 | 22.07                    | 22.03                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 50      | 26        | 23.11                 | 23.14                    | 23.08                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.22                 | 22.27                    | 22.20                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 100     | 0         | 22.02                 | 22.11                    | 22.02                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 21.67                 | 21.79                    | 21.70                  | 23.0                | 1.0      |  |
| 20              | 64QAM      | 1       | 1         | 20.25                 | 20.32                    | 20.26                  | 21.5                | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 18.72                 | 18.73                    | 18.62                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 164300                | 166300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 23.02                 | 23.08                    | 22.88                  |                     |          |  |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 22.89                 | 23.11                    | 22.84                  |                     |          |  |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  | 24.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         | 23.07                 | 22.97                    | 23.14                  |                     |          |  |

| n30_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 462000                |                          |                        | 23.0                |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | PI2 BPSK   | 1       | 1         |                       | 16.14                    |                        | 17.5                | 0.0      |  |
| 10              | PI2 BPSK   | 1       | 26        |                       | 16.23                    |                        |                     |          |  |
| 10              | PI2 BPSK   | 1       | 50        |                       | 16.15                    |                        |                     |          |  |
| 10              | PI2 BPSK   | 25      | 0         |                       | 16.14                    |                        | 17.5                | 0.0      |  |
| 10              | PI2 BPSK   | 25      | 14        |                       | 16.16                    |                        | 17.5                | 0.0      |  |
| 10              | PI2 BPSK   | 25      | 27        |                       | 16.18                    |                        | 17.5                | 0.0      |  |
| 10              | PI2 BPSK   | 50      | 0         |                       | 16.17                    |                        |                     |          |  |
| 10              | QPSK       | 1       | 1         |                       | 16.23                    |                        | 17.5                | 0.0      |  |
| 10              | QPSK       | 1       | 26        |                       | 16.23                    |                        |                     |          |  |
| 10              | QPSK       | 1       | 50        |                       | 16.15                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 0         |                       | 16.13                    |                        | 17.5                | 0.0      |  |
| 10              | QPSK       | 25      | 14        |                       | 16.21                    |                        | 17.5                | 0.0      |  |
| 10              | QPSK       | 25      | 27        |                       | 16.08                    |                        | 17.5                | 0.0      |  |
| 10              | QPSK       | 50      | 0         |                       | 16.19                    |                        |                     |          |  |
| 10              | 16QAM      | 1       | 1         |                       | 16.21                    |                        | 17.5                | 0.0      |  |
| 10              | 64QAM      | 1       | 1         |                       | 16.11                    |                        | 17.5                | 0.0      |  |
| 10              | 256QAM     | 1       | 1         |                       | 16.11                    |                        | 17.5                | 0.0      |  |
| Channel         |            |         |           | 461800                |                          |                        | 23.07.5             | 23.10    |  |
| Frequency (MHz) |            |         |           | 462000                |                          |                        |                     |          |  |
| 5               | QPSK       | 1       | 1         | 16.23                 | 16.21                    | 16.15                  | 17.5                | 0.0      |  |



| n30_Ant 2       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 462000                |                          |                        | 23.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |                     |          |  |
| 10              | PI2 BPSK   | 1       | 1         | 21.96                 |                          |                        | 23.0                | 0.0      |  |
| 10              | PI2 BPSK   | 1       | 26        | 21.95                 |                          |                        |                     |          |  |
| 10              | PI2 BPSK   | 1       | 50        | 21.92                 |                          |                        |                     |          |  |
| 10              | PI2 BPSK   | 25      | 0         | 21.44                 |                          |                        | 22.5                | 0.5      |  |
| 10              | PI2 BPSK   | 25      | 14        | 21.96                 |                          |                        | 23.0                | 0.0      |  |
| 10              | PI2 BPSK   | 25      | 27        | 21.42                 |                          |                        | 22.5                | 0.5      |  |
| 10              | PI2 BPSK   | 50      | 0         | 21.44                 |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.05                 |                          |                        | 23.0                | 0.0      |  |
| 10              | QPSK       | 1       | 26        | 21.96                 |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 50        | 21.97                 |                          |                        |                     |          |  |
| 10              | QPSK       | 25      | 0         | 20.88                 |                          |                        | 22.0                | 1.0      |  |
| 10              | QPSK       | 25      | 14        | 21.97                 |                          |                        | 23.0                | 0.0      |  |
| 10              | QPSK       | 25      | 27        | 20.98                 |                          |                        | 22.0                | 1.0      |  |
| 10              | QPSK       | 50      | 0         | 20.93                 |                          |                        |                     |          |  |
| 10              | 16QAM      | 1       | 1         | 20.85                 |                          |                        | 22.0                | 1.0      |  |
| 10              | 64QAM      | 1       | 1         | 19.30                 |                          |                        | 20.5                | 2.5      |  |
| 10              | 256QAM     | 1       | 1         | 17.37                 |                          |                        | 18.5                | 4.5      |  |
| Channel         |            |         |           | 481500                | 482000                   | 482500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 21.94                 | 21.94                    | 21.89                  | 23.0                | 0.0      |  |

| n66_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 346000                | 349000                   | 352000                 | 17.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1766                   |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 16.51                 | 16.62                    | 16.60                  | 17.5                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 108       | 16.58                 | 16.60                    | 16.61                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 214       | 16.33                 | 16.44                    | 16.42                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 16.44                 | 16.54                    | 16.52                  | 17.5                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 54        | 16.47                 | 16.51                    | 16.40                  | 17.5                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 16.58                 | 16.64                    | 16.52                  | 17.5                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 16.67                 | 16.67                    | 16.55                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 16.63                 | 16.68                    | 16.52                  | 17.5                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 16.47                 | 16.55                    | 16.43                  |                     |          |  |
| 40              | QPSK       | 1       | 214       | 16.38                 | 16.54                    | 16.45                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 16.40                 | 16.53                    | 16.44                  | 17.5                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 16.53                 | 16.66                    | 16.47                  | 17.5                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 16.49                 | 16.57                    | 16.40                  | 17.5                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 16.41                 | 16.64                    | 16.34                  |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 16.06                 | 16.43                    | 16.30                  | 17.5                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 16.27                 | 16.18                    | 16.14                  | 17.5                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 16.42                 | 16.35                    | 16.24                  | 17.5                | 0.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 16.62                 | 16.67                    | 16.44                  | 17.5                | 0.0      |  |
| Channel         |            |         |           | 344900                | 349000                   | 353500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 16.69                 | 16.65                    | 16.40                  | 17.5                | 0.0      |  |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 16.80                 | 16.56                    | 16.52                  | 17.5                | 0.0      |  |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 16.58                 | 16.58                    | 16.51                  | 17.5                | 0.0      |  |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 16.59                 | 16.64                    | 16.47                  | 17.5                | 0.0      |  |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 16.58                 | 16.62                    | 16.51                  | 17.5                | 0.0      |  |

| n66_Ant 2       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 346000                | 349000                   | 352000                 | 21.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 20.43                 | 20.51                    | 20.40                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 108       | 20.47                 | 20.62                    | 20.58                  | 21.5                | 0.0      |  |
| 40              | PI2 BPSK   | 1       | 214       | 20.53                 | 20.55                    | 20.43                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 0         | 20.46                 | 20.54                    | 20.53                  |                     |          |  |
| 40              | PI2 BPSK   | 108     | 54        | 20.49                 | 20.60                    | 20.53                  | 21.5                | 0.0      |  |
| 40              | PI2 BPSK   | 108     | 108       | 20.65                 | 20.53                    | 20.65                  | 21.5                | 0.0      |  |
| 40              | PI2 BPSK   | 216     | 0         | 20.54                 | 20.63                    | 20.50                  |                     |          |  |
| 40              | QPSK       | 1       | 1         | 20.60                 | 20.67                    | 20.63                  | 21.5                | 0.0      |  |
| 40              | QPSK       | 1       | 108       | 20.28                 | 20.44                    | 20.35                  |                     |          |  |
| 40              | QPSK       | 1       | 214       | 20.34                 | 20.41                    | 20.41                  |                     |          |  |
| 40              | QPSK       | 108     | 0         | 20.51                 | 20.62                    | 20.49                  | 21.5                | 0.0      |  |
| 40              | QPSK       | 108     | 54        | 20.56                 | 20.66                    | 20.65                  | 21.5                | 0.0      |  |
| 40              | QPSK       | 108     | 108       | 20.54                 | 20.62                    | 20.55                  | 21.5                | 0.0      |  |
| 40              | QPSK       | 216     | 0         | 20.60                 | 20.63                    | 20.52                  |                     |          |  |
| 40              | 16QAM      | 1       | 1         | 20.37                 | 20.50                    | 20.39                  | 21.5                | 0.0      |  |
| 40              | 64QAM      | 1       | 1         | 20.28                 | 20.35                    | 20.26                  | 21.5                | 0.0      |  |
| 40              | 256QAM     | 1       | 1         | 18.18                 | 18.21                    | 18.13                  | 19.5                | 2.0      |  |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |  |
| 30              | QPSK       | 1       | 1         | 20.13                 | 20.44                    | 20.41                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1767.5                 |                     |          |  |
| 25              | QPSK       | 1       | 1         | 20.13                 | 20.44                    | 20.44                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |
| 20              | QPSK       | 1       | 1         | 20.16                 | 20.46                    | 20.47                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 20.07                 | 20.28                    | 20.40                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 20.17                 | 20.42                    | 20.40                  | 21.5                | 0.0      |  |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 20.08                 | 20.36                    | 20.42                  | 21.5                | 0.0      |  |



| n70_Ant 1       |            |         |           |                       |                          |                        |                     |           |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|-----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (dbi) |  |
| Channel         |            |         |           | 340500                |                          |                        | 19.0                | 0.0       |  |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |           |  |
| 15              | PI/2 BPSK  | 1       | 1         | 17.97                 |                          |                        | 19.0                | 0.0       |  |
| 15              | PI/2 BPSK  | 1       | 40        | 18.01                 |                          |                        |                     |           |  |
| 15              | PI/2 BPSK  | 1       | 77        | 18.00                 |                          |                        |                     |           |  |
| 15              | PI/2 BPSK  | 36      | 0         | 17.53                 |                          |                        | 19.0                | 0.0       |  |
| 15              | PI/2 BPSK  | 36      | 22        | 18.02                 |                          |                        | 19.0                | 0.0       |  |
| 15              | PI/2 BPSK  | 36      | 43        | 17.49                 |                          |                        | 19.0                | 0.0       |  |
| 15              | PI/2 BPSK  | 75      | 0         | 17.52                 |                          |                        |                     |           |  |
| 15              | QPSK       | 1       | 1         | 18.07                 |                          |                        | 19.0                | 0.0       |  |
| 15              | QPSK       | 1       | 40        | 18.01                 |                          |                        |                     |           |  |
| 15              | QPSK       | 1       | 77        | 17.90                 |                          |                        |                     |           |  |
| 15              | QPSK       | 36      | 0         | 17.91                 |                          |                        | 19.0                | 0.0       |  |
| 15              | QPSK       | 36      | 22        | 18.05                 |                          |                        | 19.0                | 0.0       |  |
| 15              | QPSK       | 36      | 43        | 17.98                 |                          |                        | 19.0                | 0.0       |  |
| 15              | QPSK       | 75      | 0         | 18.03                 |                          |                        |                     |           |  |
| 15              | 16QAM      | 1       | 1         | 17.94                 |                          |                        | 19.0                | 0.0       |  |
| 15              | 64QAM      | 1       | 1         | 17.94                 |                          |                        | 19.0                | 0.0       |  |
| 15              | 256QAM     | 1       | 1         | 17.93                 |                          |                        | 19.0                | 0.0       |  |
| Channel         |            |         |           | 340000                | 340500                   | 341000                 | Tune-up limit (dbm) | MPR (dbi) |  |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |           |  |
| 10              | QPSK       | 1       | 1         | 17.87                 | 17.86                    | 17.89                  | 19.0                | 0.0       |  |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dbm) | MPR (dbi) |  |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |           |  |
| 5               | QPSK       | 1       | 1         | 17.92                 | 17.92                    | 17.88                  | 19.0                | 0.0       |  |

| n70_Ant 2       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |  |
| Channel         |            |         |           | 340500                |                          |                        | 22.5                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |  |
| 15              | PI/2 BPSK  | 1       | 1         | 20.65                 |                          |                        | 22.5                | 0.0      |  |
| 15              | PI/2 BPSK  | 1       | 40        | 20.55                 |                          |                        |                     |          |  |
| 15              | PI/2 BPSK  | 1       | 77        | 20.64                 |                          |                        |                     |          |  |
| 15              | PI/2 BPSK  | 36      | 0         | 20.59                 |                          |                        | 22.5                | 0.0      |  |
| 15              | PI/2 BPSK  | 36      | 22        | 20.61                 |                          |                        | 22.5                | 0.0      |  |
| 15              | PI/2 BPSK  | 36      | 43        | 20.61                 |                          |                        | 22.5                | 0.0      |  |
| 15              | PI/2 BPSK  | 75      | 0         | 20.63                 |                          |                        |                     |          |  |
| 15              | QPSK       | 1       | 1         | 20.74                 |                          |                        | 22.5                | 0.0      |  |
| 15              | QPSK       | 1       | 40        | 20.72                 |                          |                        |                     |          |  |
| 15              | QPSK       | 1       | 77        | 20.66                 |                          |                        |                     |          |  |
| 15              | QPSK       | 36      | 0         | 20.64                 |                          |                        | 22.5                | 0.0      |  |
| 15              | QPSK       | 36      | 22        | 20.72                 |                          |                        | 22.5                | 0.0      |  |
| 15              | QPSK       | 36      | 43        | 20.55                 |                          |                        | 22.5                | 0.0      |  |
| 15              | QPSK       | 75      | 0         | 20.70                 |                          |                        |                     |          |  |
| 15              | 16QAM      | 1       | 1         | 20.66                 |                          |                        | 22.5                | 0.0      |  |
| 15              | 64QAM      | 1       | 1         | 19.82                 |                          |                        | 21.5                | 1.0      |  |
| 15              | 256QAM     | 1       | 1         | 17.32                 |                          |                        | 19.0                | 3.5      |  |
| Channel         |            |         |           | 340000                | 340500                   | 341000                 | Tune-up limit (dbm) | MPR (db) |  |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 20.62                 | 20.71                    | 20.72                  | 22.5                | 0.0      |  |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dbm) | MPR (db) |  |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 20.62                 | 20.53                    | 20.71                  | 22.5                | 0.0      |  |



| n71_Ant 0       |            |         |           |                          |                                |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 134600                   | 136100                         | 137600                    |                        |             |  |
| Frequency (MHz) |            |         |           | 673                      | 680.5                          | 688                       |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.72                    | 22.75                          | 22.79                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 1       | 53        | 22.71                    | 22.85                          | 22.75                     |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.73                    | 22.80                          | 22.80                     |                        |             |  |
| 20              | PI/2 BPSK  | 50      | 0         | 21.67                    | 22.28                          | 22.15                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 50      | 26        | 22.72                    | 22.74                          | 22.78                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 56        | 21.79                    | 22.14                          | 22.42                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 100     | 0         | 21.76                    | 22.22                          | 22.27                     |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.76                    | 22.84                          | 22.76                     |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.66                    | 22.68                          | 22.65                     | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.71                    | 22.79                          | 22.74                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 21.68                    | 21.76                          | 21.73                     |                        |             |  |
| 20              | QPSK       | 50      | 26        | 22.73                    | 22.81                          | 22.74                     |                        |             |  |
| 20              | QPSK       | 50      | 56        | 21.57                    | 21.66                          | 21.68                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.69                    | 21.77                          | 21.76                     |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 21.60                    | 21.65                          | 21.67                     | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 20.29                    | 20.35                          | 20.38                     | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 17.90                    | 17.95                          | 17.98                     | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 134100                   | 136100                         | 138100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                          | 690.5                     |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.74                    | 22.69                          | 22.66                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133600                   | 136100                         | 138600                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 668                      | 680.5                          | 693                       |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.64                    | 22.73                          | 22.59                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133100                   | 136100                         | 139100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                          | 695.5                     |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.72                    | 22.76                          | 22.73                     | 24.0                   | 0.0         |  |

| n71_Ant 1       |            |         |           |                          |                                |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 134600                   | 136100                         | 137600                    |                        |             |  |
| Frequency (MHz) |            |         |           | 673                      | 680.5                          | 688                       |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.76                    | 22.83                          | 22.79                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 1       | 53        | 22.69                    | 22.81                          | 22.81                     |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.69                    | 22.74                          | 22.72                     |                        |             |  |
| 20              | PI/2 BPSK  | 50      | 0         | 22.37                    | 22.35                          | 22.29                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 50      | 26        | 22.70                    | 22.75                          | 22.73                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 56        | 22.19                    | 22.28                          | 22.16                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 100     | 0         | 22.34                    | 22.37                          | 22.25                     |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.80                    | 22.84                          | 22.79                     |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.67                    | 22.76                          | 22.73                     | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.78                    | 22.82                          | 22.78                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 21.76                    | 21.76                          | 21.74                     |                        |             |  |
| 20              | QPSK       | 50      | 26        | 22.75                    | 22.80                          | 22.77                     |                        |             |  |
| 20              | QPSK       | 50      | 56        | 21.72                    | 21.71                          | 21.65                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.67                    | 21.76                          | 21.69                     |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 21.65                    | 21.75                          | 21.77                     | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 19.98                    | 19.98                          | 19.88                     | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 18.52                    | 18.53                          | 18.53                     | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 134100                   | 136100                         | 138100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                          | 690.5                     |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.78                    | 22.76                          | 22.80                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133600                   | 136100                         | 138600                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 668                      | 680.5                          | 693                       |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.67                    | 22.68                          | 22.71                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133100                   | 136100                         | 139100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                          | 695.5                     |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.71                    | 22.82                          | 22.67                     | 24.0                   | 0.0         |  |



### n38\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 518004                      | 519000                         | 519998                       | 15.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 2590.02                     | 2595                           | 2599.98                      |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 13.89                       | 14.03                          | 13.79                        |                        |             |
| 40              | PI2 BPSK   | 1       | 53        | 13.84                       | 13.95                          | 13.79                        | 15.5                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 104       | 13.87                       | 13.93                          | 13.87                        |                        |             |
| 40              | PI2 BPSK   | 50      | 0         | 13.87                       | 13.89                          | 13.74                        |                        |             |
| 40              | PI2 BPSK   | 50      | 28        | 14.02                       | 14.02                          | 13.87                        | 15.5                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 56        | 13.77                       | 13.81                          | 13.84                        | 15.5                   | 0.0         |
| 40              | PI2 BPSK   | 100     | 0         | 13.81                       | 13.84                          | 13.71                        | 15.5                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 13.92                       | 14.06                          | 13.97                        |                        |             |
| 40              | QPSK       | 1       | 53        | 13.92                       | 13.88                          | 13.84                        |                        |             |
| 40              | QPSK       | 1       | 104       | 13.90                       | 13.90                          | 13.80                        | 15.5                   | 0.0         |
| 40              | QPSK       | 50      | 0         | 13.82                       | 13.64                          | 13.80                        |                        |             |
| 40              | QPSK       | 50      | 28        | 13.90                       | 14.04                          | 13.90                        |                        |             |
| 40              | QPSK       | 50      | 56        | 13.78                       | 13.89                          | 13.83                        | 15.5                   | 0.0         |
| 40              | QPSK       | 100     | 0         | 13.96                       | 14.02                          | 13.82                        |                        |             |
| 40              | 16QAM      | 1       | 1         | 14.01                       | 13.89                          | 13.80                        | 15.5                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 14.04                       | 13.83                          | 13.68                        | 15.5                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 13.88                       | 13.83                          | 13.64                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 517002                      | 519000                         | 520998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2585.01                     | 2595                           | 2604.99                      | 15.5                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 14.01                       | 13.94                          | 13.70                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 516504                      | 519000                         | 521498                       |                        |             |
| Frequency (MHz) |            |         |           | 2582.52                     | 2595                           | 2607.48                      |                        |             |
| 25              | QPSK       | 1       | 1         | 13.95                       | 13.93                          | 13.90                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 516000                      | 519000                         | 522000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         | 15.5                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 13.74                       | 13.94                          | 13.71                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 515502                      | 519000                         | 522498                       |                        |             |
| Frequency (MHz) |            |         |           | 2577.51                     | 2595                           | 2612.49                      |                        |             |
| 15              | QPSK       | 1       | 1         | 14.04                       | 13.88                          | 13.79                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 515004                      | 519000                         | 522998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2575.02                     | 2595                           | 2614.98                      | 15.5                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 13.70                       | 14.00                          | 13.78                        | 15.5                   | 0.0         |

### n41\_Ant 0(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 509202                      | 518598                         | 528000                       | 16.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 14.92                       | 15.07                          | 15.06                        |                        |             |
| 100             | PI2 BPSK   | 1       | 137       | 15.11                       | 15.13                          | 15.07                        | 16.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 271       | 15.00                       | 15.12                          | 15.08                        |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 15.14                       | 15.15                          | 15.15                        |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 15.09                       | 15.20                          | 15.14                        | 16.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 15.13                       | 15.16                          | 15.08                        | 16.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 15.22                       | 15.23                          | 15.13                        | 16.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 15.27                       | 15.41                          | 15.15                        |                        |             |
| 100             | QPSK       | 1       | 137       | 15.14                       | 15.20                          | 15.10                        |                        |             |
| 100             | QPSK       | 1       | 271       | 15.22                       | 15.27                          | 15.10                        | 16.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 15.16                       | 15.19                          | 15.06                        |                        |             |
| 100             | QPSK       | 135     | 69        | 15.30                       | 15.39                          | 15.17                        |                        |             |
| 100             | QPSK       | 135     | 138       | 15.06                       | 15.17                          | 15.10                        | 16.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         | 15.17                       | 15.38                          | 15.12                        |                        |             |
| 100             | 16QAM      | 1       | 1         | 15.07                       | 15.19                          | 15.14                        | 16.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 15.17                       | 15.22                          | 15.06                        | 16.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 15.04                       | 15.07                          | 14.96                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 508200                      | 518598                         | 528998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      | 16.5                   | 0.0         |
| 90              | QPSK       | 1       | 1         | 15.18                       | 15.18                          | 15.00                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 507204                      | 518598                         | 529998                       |                        |             |
| Frequency (MHz) |            |         |           | 2536.02                     | 2592.99                        | 2649.98                      |                        |             |
| 80              | QPSK       | 1       | 1         | 15.10                       | 15.16                          | 15.06                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 506202                      | 518598                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         | 16.5                   | 0.0         |
| 70              | QPSK       | 1       | 1         | 15.21                       | 15.17                          | 15.06                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 505200                      | 518598                         | 531998                       |                        |             |
| Frequency (MHz) |            |         |           | 2526.02                     | 2592.99                        | 2659.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 15.16                       | 15.12                          | 15.13                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 504204                      | 518598                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      | 16.5                   | 0.0         |
| 50              | QPSK       | 1       | 1         | 15.18                       | 15.18                          | 15.13                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 503202                      | 518598                         | 533998                       |                        |             |
| Frequency (MHz) |            |         |           | 2516.01                     | 2592.99                        | 2670.99                      |                        |             |
| 40              | QPSK       | 1       | 1         | 15.13                       | 15.14                          | 15.00                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 502200                      | 518598                         | 534998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      | 16.5                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 15.15                       | 15.16                          | 15.09                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 501204                      | 518598                         | 535998                       |                        |             |
| Frequency (MHz) |            |         |           | 2506.02                     | 2592.99                        | 2678.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 15.18                       | 15.14                          | 15.13                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 500700                      | 518598                         | 536498                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      | 16.5                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 15.14                       | 15.13                          | 15.00                        | 16.5                   | 0.0         |
| Channel         |            |         |           | 500202                      | 518598                         | 537000                       |                        |             |
| Frequency (MHz) |            |         |           | 2501.01                     | 2592.99                        | 2685                         |                        |             |
| 10              | QPSK       | 1       | 1         | 15.17                       | 15.14                          | 15.10                        | 16.5                   | 0.0         |

### n41(HPUE)\_Ant 0(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 509202                   | 518598                      | 528000                    | 19.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 17.93                    | 17.97                       | 17.81                     |                        |             |
| 100             | PI2 BPSK   | 1       | 137       | 18.04                    | 18.04                       | 17.93                     | 19.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 271       | 17.96                    | 18.01                       | 17.89                     |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 18.06                    | 18.08                       | 18.03                     | 19.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 69        | 17.95                    | 18.07                       | 18.01                     | 19.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 17.95                    | 17.98                       | 17.93                     | 19.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 18.01                    | 18.05                       | 17.93                     | 19.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 18.08                    | 18.21                       | 18.08                     |                        |             |
| 100             | QPSK       | 1       | 137       | 18.06                    | 18.16                       | 17.99                     |                        |             |
| 100             | QPSK       | 1       | 271       | 18.03                    | 18.11                       | 17.93                     | 19.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 18.04                    | 18.06                       | 17.95                     |                        |             |
| 100             | QPSK       | 135     | 69        | 18.11                    | 18.19                       | 17.90                     |                        |             |
| 100             | QPSK       | 135     | 138       | 17.85                    | 17.92                       | 17.83                     | 19.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         | 17.92                    | 18.03                       | 17.92                     |                        |             |
| 100             | 16QAM      | 1       | 1         | 18.07                    | 18.15                       | 18.05                     | 19.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 18.03                    | 18.18                       | 18.17                     | 19.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 17.87                    | 17.70                       | 17.81                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 508200                   | 518598                      | 528998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                     | 2592.99                     | 2644.98                   | 19.5                   | 0.0         |
| 90              | QPSK       | 1       | 1         | 17.97                    | 18.17                       | 18.07                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 507204                   | 518598                      | 529998                    |                        |             |
| Frequency (MHz) |            |         |           | 2536.02                  | 2592.99                     | 2649.98                   |                        |             |
| 80              | QPSK       | 1       | 1         | 17.92                    | 18.15                       | 18.05                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 506202                   | 518598                      | 531000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2531.01                  | 2592.99                     | 2655                      | 19.5                   | 0.0         |
| 70              | QPSK       | 1       | 1         | 18.08                    | 18.10                       | 18.05                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 505200                   | 518598                      | 531998                    |                        |             |
| Frequency (MHz) |            |         |           | 2526.02                  | 2592.99                     | 2659.98                   |                        |             |
| 60              | QPSK       | 1       | 1         | 17.98                    | 18.12                       | 17.97                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 504204                   | 518598                      | 532998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                  | 2592.99                     | 2664.99                   | 19.5                   | 0.0         |
| 50              | QPSK       | 1       | 1         | 17.91                    | 18.11                       | 18.00                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 503202                   | 518598                      | 533998                    |                        |             |
| Frequency (MHz) |            |         |           | 2516.01                  | 2592.99                     | 2670.99                   |                        |             |
| 40              | QPSK       | 1       | 1         | 18.04                    | 18.18                       | 18.08                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 502200                   | 518598                      | 534998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                     | 2592.99                     | 2674.98                   | 19.5                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 17.95                    | 18.11                       | 18.08                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 501204                   | 518598                      | 535998                    |                        |             |
| Frequency (MHz) |            |         |           | 2506.02                  | 2592.99                     | 2678.99                   |                        |             |
| 20              | QPSK       | 1       | 1         | 18.07                    | 18.12                       | 18.07                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 500700                   | 518598                      | 536498                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2503.5                   | 2592.99                     | 2682.48                   | 19.5                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 18.06                    | 18.13                       | 18.06                     | 19.5                   | 0.0         |
| Channel         |            |         |           | 500202                   | 518598                      | 537000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2501.01                  | 2592.99                     | 2685                      | 19.5                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 17.97                    | 18.13                       | 17.96                     | 19.5                   | 0.0         |



n41\_Ant 1(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 506202                      | 518598                         | 528000                       |                        |             |
| Frequency (MHz) |            |         |           | 2548.01                     | 2592.99                        | 2640                         |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 13.89                       | 13.97                          | 13.94                        | 15.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 13.92                       | 13.96                          | 13.91                        |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 13.91                       | 13.95                          | 13.93                        |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 13.88                       | 14.00                          | 13.87                        |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 14.05                       | 14.05                          | 14.00                        | 15.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 13.80                       | 13.92                          | 13.92                        | 15.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 13.87                       | 13.91                          | 13.82                        |                        |             |
| 100             | QPSK       | 1       | 1         | 13.92                       | 14.12                          | 13.93                        |                        |             |
| 100             | QPSK       | 1       | 137       | 14.00                       | 14.01                          | 13.91                        |                        |             |
| 100             | QPSK       | 1       | 271       | 14.00                       | 13.93                          | 13.87                        | 15.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 13.82                       | 13.71                          | 13.84                        |                        |             |
| 100             | QPSK       | 135     | 69        | 13.99                       | 14.10                          | 13.97                        |                        |             |
| 100             | QPSK       | 135     | 138       | 13.89                       | 13.91                          | 13.88                        |                        |             |
| 100             | QPSK       | 270     | 0         | 14.01                       | 14.09                          | 13.90                        | 15.5                   | 0.0         |
| 100             | 8QAM       | 1       | 1         | 14.03                       | 13.91                          | 13.88                        | 15.5                   | 0.0         |
| 100             | 8QAM       | 1       | 1         | 14.06                       | 13.92                          | 13.94                        | 15.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 13.95                       | 13.90                          | 13.85                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 506200                      | 518598                         | 528996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |
| 90              | QPSK       | 1       | 1         | 13.96                       | 13.97                          | 13.91                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 507204                      | 518598                         | 529996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2538.02                     | 2592.99                        | 2648.99                      |                        |             |
| 80              | QPSK       | 1       | 1         | 14.11                       | 13.91                          | 13.92                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 506202                      | 518598                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |
| 70              | QPSK       | 1       | 1         | 14.11                       | 13.97                          | 13.95                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 502200                      | 518598                         | 531996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536                        | 2592.99                        | 2658.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 14.05                       | 13.99                          | 13.94                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 504204                      | 518598                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |
| 50              | QPSK       | 1       | 1         | 14.09                       | 13.97                          | 13.85                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 502202                      | 518598                         | 534000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536.01                     | 2592.99                        | 2670                         |                        |             |
| 40              | QPSK       | 1       | 1         | 14.02                       | 14.00                          | 13.96                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 502200                      | 518598                         | 534996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |
| 30              | QPSK       | 1       | 1         | 13.94                       | 13.90                          | 13.91                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 501204                      | 518598                         | 535998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2528.02                     | 2592.99                        | 2678.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 13.97                       | 14.00                          | 13.93                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 500700                      | 518598                         | 536496                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 14.06                       | 13.90                          | 13.87                        | 15.5                   | 0.0         |
| Channel         |            |         |           | 500202                      | 518598                         | 537000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2501.01                     | 2592.99                        | 2685                         |                        |             |
| 10              | QPSK       | 1       | 1         | 14.11                       | 13.87                          | 13.91                        | 15.5                   | 0.0         |

n41(HPUe)\_Ant 1(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 506202                      | 518598                         | 528000                       |                        |             |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 16.87                       | 16.96                          | 16.90                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 16.91                       | 17.02                          | 17.02                        |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 16.86                       | 16.99                          | 16.95                        |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 17.00                       | 17.05                          | 16.97                        |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 16.96                       | 17.06                          | 16.98                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 16.85                       | 16.98                          | 16.87                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 16.96                       | 17.11                          | 16.93                        |                        |             |
| 100             | QPSK       | 1       | 1         | 16.96                       | 17.23                          | 16.96                        |                        |             |
| 100             | QPSK       | 1       | 137       | 16.98                       | 17.15                          | 16.99                        |                        |             |
| 100             | QPSK       | 1       | 271       | 16.90                       | 17.03                          | 17.00                        | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 16.97                       | 17.05                          | 16.95                        |                        |             |
| 100             | QPSK       | 135     | 69        | 17.03                       | 17.21                          | 17.05                        |                        |             |
| 100             | QPSK       | 135     | 138       | 16.99                       | 17.01                          | 16.88                        |                        |             |
| 100             | QPSK       | 270     | 0         | 16.93                       | 17.18                          | 16.92                        | 18.5                   | 0.0         |
| 100             | 8QAM       | 1       | 1         | 16.87                       | 16.91                          | 16.85                        | 18.5                   | 0.0         |
| 100             | 8QAM       | 1       | 1         | 16.87                       | 16.89                          | 16.81                        | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 17.12                       | 17.12                          | 17.20                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 506200                      | 518598                         | 528996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |
| 90              | QPSK       | 1       | 1         | 17.05                       | 17.13                          | 16.98                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 507204                      | 518598                         | 529996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536.02                     | 2592.99                        | 2648.99                      |                        |             |
| 80              | QPSK       | 1       | 1         | 17.01                       | 17.12                          | 16.96                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 506202                      | 518598                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |
| 70              | QPSK       | 1       | 1         | 17.05                       | 17.00                          | 17.05                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 506200                      | 518598                         | 531996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536                        | 2592.99                        | 2658.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 17.00                       | 17.05                          | 17.04                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 504204                      | 518598                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |
| 50              | QPSK       | 1       | 1         | 16.90                       | 17.02                          | 17.02                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 502200                      | 518598                         | 534000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536.01                     | 2592.99                        | 2670                         |                        |             |
| 40              | QPSK       | 1       | 1         | 16.91                       | 17.01                          | 17.06                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 502200                      | 518598                         | 534996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |
| 30              | QPSK       | 1       | 1         | 17.05                       | 17.08                          | 17.01                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 501204                      | 518598                         | 535998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2528.02                     | 2592.99                        | 2678.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 17.00                       | 17.11                          | 17.08                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 500700                      | 518598                         | 536496                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 16.91                       | 17.08                          | 16.95                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 500202                      | 518598                         | 537000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2501.01                     | 2592.99                        | 2685                         |                        |             |
| 10              | QPSK       | 1       | 1         | 17.04                       | 17.02                          | 17.05                        | 18.5                   | 0.0         |

n41\_Ant 2(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 506202                      | 518598                         | 528000                       |                        |             |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 21.17                       | 21.25                          | 21.08                        | 22.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 21.24                       | 21.31                          | 21.22                        |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 21.18                       | 21.30                          | 21.21                        |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 21.18                       | 21.23                          | 21.20                        |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 21.25                       | 21.29                          | 21.22                        | 22.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 21.16                       | 21.17                          | 21.16                        | 22.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 21.16                       | 21.19                          | 21.15                        |                        |             |
| 100             | QPSK       | 1       | 1         | 21.27                       | 21.36                          | 21.25                        |                        |             |
| 100             | QPSK       | 1       | 137       | 21.23                       | 21.29                          | 21.19                        |                        |             |
| 100             | QPSK       | 1       | 271       | 21.24                       | 21.35                          | 21.12                        | 22.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 21.12                       | 21.19                          | 21.12                        |                        |             |
| 100             | QPSK       | 135     | 69        | 21.18                       | 21.34                          | 21.16                        |                        |             |
| 100             | QPSK       | 135     | 138       | 21.11                       | 21.18                          | 21.12                        |                        |             |
| 100             | QPSK       | 270     | 0         | 21.06                       | 21.32                          | 21.08                        | 22.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 21.15                       | 21.15                          | 21.11                        | 22.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 21.25                       | 21.29                          | 21.22                        | 22.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 21.09                       | 21.12                          | 21.09                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 506200                      | 518598                         | 528996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |
| 90              | QPSK       | 1       | 1         | 21.30                       | 21.32                          | 21.20                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 507204                      | 518598                         | 529996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2536.02                     | 2592.99                        | 2648.99                      |                        |             |
| 80              | QPSK       | 1       | 1         | 21.21                       | 21.33                          | 21.18                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 506202                      | 518598                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |
| 70              | QPSK       | 1       | 1         | 21.27                       | 21.30                          | 21.18                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 505200                      | 518598                         | 531996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2526                        | 2592.99                        | 2659.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 21.23                       | 21.25                          | 21.17                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 502204                      | 518598                         | 532996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |
| 50              | QPSK       | 1       | 1         | 21.25                       | 21.34                          | 21.18                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 503202                      | 518598                         | 534000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2518.01                     | 2592.99                        | 2670                         |                        |             |
| 40              | QPSK       | 1       | 1         | 21.21                       | 21.23                          | 21.19                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 502200                      | 518598                         | 533996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |
| 30              | QPSK       | 1       | 1         | 21.24                       | 21.35                          | 21.19                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 501204                      | 518598                         | 533996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2506.02                     | 2592.99                        | 2679.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 21.33                       | 21.27                          | 21.15                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 500700                      | 518598                         | 533496                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2503.01                     | 2592.99                        | 2674.98                      |                        |             |
| 15              | QPSK       | 1       | 1         | 21.23                       | 21.27                          | 21.13                        | 22.5                   | 0.0         |
| Channel         |            |         |           | 500202                      | 518598                         | 533000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 2501.01                     | 2592.99                        | 2685                         |                        |             |
| 10              | QPSK       | 1       | 1         | 21.34                       | 21.25                          | 21.17                        | 22.5                   | 0.0         |



| n41(HPUE)_Ant 2(FCC) |            |         |           |                             |                                |                              |                        |             |  |
|----------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel              |            |         |           | 509202                      | 518598                         | 528000                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |  |
| 100                  | PI2 BPSK   | 1       | 1         | 23.98                       | 24.14                          | 24.13                        | 25.5                   | 0.0         |  |
| 100                  | PI2 BPSK   | 1       | 137       | 24.04                       | 24.17                          | 24.15                        |                        |             |  |
| 100                  | PI2 BPSK   | 1       | 271       | 24.12                       | 24.18                          | 24.13                        |                        |             |  |
| 100                  | PI2 BPSK   | 135     | 0         | 24.03                       | 24.13                          | 24.05                        |                        |             |  |
| 100                  | PI2 BPSK   | 135     | 69        | 24.06                       | 24.19                          | 24.14                        | 25.5                   | 0.0         |  |
| 100                  | PI2 BPSK   | 135     | 138       | 24.13                       | 24.13                          | 24.03                        | 25.5                   | 0.0         |  |
| 100                  | PI2 BPSK   | 270     | 0         | 23.96                       | 24.07                          | 23.96                        | 25.5                   | 0.0         |  |
| 100                  | QPSK       | 1       | 1         | 24.21                       | 24.31                          | 24.29                        |                        |             |  |
| 100                  | QPSK       | 1       | 137       | 24.12                       | 24.17                          | 24.01                        |                        |             |  |
| 100                  | QPSK       | 1       | 271       | 24.16                       | 24.23                          | 24.20                        |                        |             |  |
| 100                  | QPSK       | 135     | 0         | 24.03                       | 24.12                          | 24.02                        | 25.5                   | 0.0         |  |
| 100                  | QPSK       | 135     | 69        | 24.11                       | 24.27                          | 24.15                        |                        |             |  |
| 100                  | QPSK       | 135     | 138       | 24.10                       | 24.11                          | 24.10                        |                        |             |  |
| 100                  | QPSK       | 270     | 0         | 23.96                       | 24.25                          | 23.97                        |                        |             |  |
| 100                  | 8QAM       | 1       | 1         | 23.82                       | 23.96                          | 23.92                        | 25.5                   | 0.0         |  |
| 100                  | 8QAM       | 1       | 1         | 23.48                       | 23.81                          | 23.59                        | 24.5                   | 1.0         |  |
| 100                  | 256QAM     | 1       | 1         | 21.81                       | 21.83                          | 21.55                        | 22.5                   | 3.0         |  |
| Channel              |            |         |           | 508200                      | 518598                         | 528996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |  |
| 90                   | QPSK       | 1       | 1         | 24.18                       | 24.08                          | 24.04                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 507204                      | 518598                         | 529996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2538.02                     | 2592.99                        | 2649.99                      |                        |             |  |
| 80                   | QPSK       | 1       | 1         | 24.04                       | 24.14                          | 24.11                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 506202                      | 518598                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |  |
| 70                   | QPSK       | 1       | 1         | 24.03                       | 24.20                          | 24.15                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 505200                      | 518598                         | 531996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2526                        | 2592.99                        | 2659.98                      |                        |             |  |
| 60                   | QPSK       | 1       | 1         | 24.21                       | 24.09                          | 24.11                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 504204                      | 518598                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |  |
| 50                   | QPSK       | 1       | 1         | 24.12                       | 24.19                          | 24.19                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 503202                      | 518598                         | 534000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2516.01                     | 2592.99                        | 2670                         |                        |             |  |
| 40                   | QPSK       | 1       | 1         | 24.03                       | 24.13                          | 24.19                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 502200                      | 518598                         | 534996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |  |
| 30                   | QPSK       | 1       | 1         | 24.17                       | 24.17                          | 24.16                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 501204                      | 518598                         | 535998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2506.02                     | 2592.99                        | 2679.99                      |                        |             |  |
| 20                   | QPSK       | 1       | 1         | 24.16                       | 24.10                          | 24.07                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 500700                      | 518598                         | 536496                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      |                        |             |  |
| 15                   | QPSK       | 1       | 1         | 24.16                       | 24.18                          | 24.09                        | 25.5                   | 0.0         |  |
| Channel              |            |         |           | 500202                      | 518598                         | 537000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2501.01                     | 2592.99                        | 2685                         |                        |             |  |
| 10                   | QPSK       | 1       | 1         | 24.03                       | 24.16                          | 24.17                        | 25.5                   | 0.0         |  |

| n41_Ant 4(FCC)  |            |         |           |                             |                                |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 509202                      | 518598                         | 528000                       | 25.5                   | 0.0         |  |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |  |
| 100             | PI2 BPSK   | 1       | 1         | 16.47                       | 16.38                          | 16.56                        | 17.5                   | 0.0         |  |
| 100             | PI2 BPSK   | 1       | 137       | 16.51                       | 16.55                          | 16.42                        |                        |             |  |
| 100             | PI2 BPSK   | 1       | 271       | 16.49                       | 16.59                          | 16.55                        |                        |             |  |
| 100             | PI2 BPSK   | 135     | 0         | 16.46                       | 16.57                          | 16.55                        |                        |             |  |
| 100             | PI2 BPSK   | 135     | 69        | 16.50                       | 16.55                          | 16.48                        | 17.5                   | 0.0         |  |
| 100             | PI2 BPSK   | 135     | 138       | 16.45                       | 16.45                          | 16.35                        | 17.5                   | 0.0         |  |
| 100             | PI2 BPSK   | 270     | 0         | 16.47                       | 16.50                          | 16.45                        | 17.5                   | 0.0         |  |
| 100             | QPSK       | 1       | 1         | 16.67                       | 16.71                          | 16.70                        |                        |             |  |
| 100             | QPSK       | 1       | 137       | 16.66                       | 16.59                          | 16.51                        |                        |             |  |
| 100             | QPSK       | 1       | 271       | 16.64                       | 16.44                          | 16.65                        |                        |             |  |
| 100             | QPSK       | 135     | 0         | 16.55                       | 16.49                          | 16.51                        | 17.5                   | 0.0         |  |
| 100             | QPSK       | 135     | 69        | 16.65                       | 16.70                          | 16.63                        |                        |             |  |
| 100             | QPSK       | 135     | 138       | 16.49                       | 16.44                          | 16.62                        |                        |             |  |
| 100             | QPSK       | 270     | 0         | 16.47                       | 16.67                          | 16.40                        |                        |             |  |
| 100             | 16QAM      | 1       | 1         | 16.43                       | 16.56                          | 16.44                        | 17.5                   | 0.0         |  |
| 100             | 64QAM      | 1       | 1         | 16.37                       | 16.40                          | 16.28                        | 17.5                   | 0.0         |  |
| 100             | 256QAM     | 1       | 1         | 16.54                       | 16.58                          | 16.47                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 508200                      | 518598                         | 528996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |  |
| 90              | QPSK       | 1       | 1         | 16.54                       | 16.63                          | 16.68                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 507204                      | 518598                         | 529996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2538.02                     | 2592.99                        | 2649.99                      |                        |             |  |
| 80              | QPSK       | 1       | 1         | 16.56                       | 16.63                          | 16.63                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 506202                      | 518598                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |  |
| 70              | QPSK       | 1       | 1         | 16.57                       | 16.63                          | 16.63                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 505200                      | 518598                         | 531996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2526                        | 2592.99                        | 2659.98                      |                        |             |  |
| 60              | QPSK       | 1       | 1         | 16.60                       | 16.64                          | 16.59                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 504204                      | 518598                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |  |
| 50              | QPSK       | 1       | 1         | 16.64                       | 16.59                          | 16.60                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 503202                      | 518598                         | 534000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2516.01                     | 2592.99                        | 2670                         |                        |             |  |
| 40              | QPSK       | 1       | 1         | 16.55                       | 16.67                          | 16.65                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 502200                      | 518598                         | 534996                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |  |
| 30              | QPSK       | 1       | 1         | 16.59                       | 16.67                          | 16.66                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 501204                      | 518598                         | 535998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2506.02                     | 2592.99                        | 2679.99                      |                        |             |  |
| 20              | QPSK       | 1       | 1         | 16.66                       | 16.65                          | 16.61                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 500700                      | 518598                         | 536496                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2682.48                      |                        |             |  |
| 15              | QPSK       | 1       | 1         | 16.62                       | 16.61                          | 16.61                        | 17.5                   | 0.0         |  |
| Channel         |            |         |           | 500202                      | 518598                         | 537000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2501.01                     | 2592.99                        | 2685                         |                        |             |  |
| 10              | QPSK       | 1       | 1         | 16.61                       | 16.68                          | 16.61                        | 17.5                   | 0.0         |  |

| n41(HPUE)_Ant 4(FCC) |            |         |           |                             |                                |                              |                        |             |  |
|----------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel              |            |         |           | 509202                      | 518598                         | 528000                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |  |
| 100                  | PI2 BPSK   | 1       | 1         | 19.62                       | 19.83                          | 19.54                        | 20.5                   | 0.0         |  |
| 100                  | PI2 BPSK   | 1       | 137       | 19.66                       | 19.71                          | 19.52                        |                        |             |  |
| 100                  | PI2 BPSK   | 1       | 271       | 19.60                       | 19.82                          | 19.82                        |                        |             |  |
| 100                  | PI2 BPSK   | 135     | 0         | 19.62                       | 19.72                          | 19.52                        |                        |             |  |
| 100                  | PI2 BPSK   | 135     | 69        | 19.72                       | 19.75                          | 19.59                        | 20.5                   | 0.0         |  |
| 100                  | PI2 BPSK   | 135     | 138       | 19.70                       | 19.81                          | 19.59                        | 20.5                   | 0.0         |  |
| 100                  | PI2 BPSK   | 270     | 0         | 19.67                       | 19.81                          | 19.55                        | 20.5                   | 0.0         |  |
| 100                  | QPSK       | 1       | 1         | 19.75                       | 19.84                          | 19.63                        |                        |             |  |
| 100                  | QPSK       | 1       | 137       | 19.70                       | 19.49                          | 19.60                        |                        |             |  |
| 100                  | QPSK       | 1       | 271       | 19.72                       | 19.77                          | 19.53                        | 20.5                   | 0.0         |  |
| 100                  | QPSK       | 135     | 0         | 19.75                       | 19.77                          | 19.57                        |                        |             |  |
| 100                  | QPSK       | 135     | 69        | 19.74                       | 19.82                          | 19.57                        |                        |             |  |
| 100                  | QPSK       | 135     | 138       | 19.83                       | 19.78                          | 19.58                        | 20.5                   | 0.0         |  |
| 100                  | QPSK       | 270     | 0         | 19.81                       | 19.80                          | 19.53                        | 20.5                   | 0.0         |  |
| 100                  | 16QAM      | 1       | 1         | 19.60                       | 19.77                          | 19.61                        | 20.5                   | 0.0         |  |
| 100                  | 64QAM      | 1       | 1         | 18.88                       | 18.77                          | 18.61                        | 19.0                   | 1.5         |  |
| 100                  | 256QAM     | 1       | 1         | 17.30                       | 17.40                          | 17.21                        | 17.5                   | 3.0         |  |
| Channel              |            |         |           | 530200                      | 518598                         | 528998                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |  |
| 90                   | QPSK       | 1       | 1         | 19.83                       | 19.71                          | 19.55                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 507204                      | 518598                         | 526998                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2538.02                     | 2592.99                        | 2646.99                      |                        |             |  |
| 80                   | QPSK       | 1       | 1         | 19.83                       | 19.82                          | 19.53                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 505203                      | 518598                         | 531000                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2531.01                     | 2592.99                        | 2656                         |                        |             |  |
| 70                   | QPSK       | 1       | 1         | 19.80                       | 19.79                          | 19.59                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 505200                      | 518598                         | 531998                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2526                        | 2592.99                        | 2659.98                      |                        |             |  |
| 60                   | QPSK       | 1       | 1         | 19.89                       | 19.79                          | 19.64                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 505203                      | 518598                         | 532998                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |  |
| 50                   | QPSK       | 1       | 1         | 19.69                       | 19.78                          | 19.55                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 503202                      | 518598                         | 534000                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2516.01                     | 2592.99                        | 2670                         |                        |             |  |
| 40                   | QPSK       | 1       | 1         | 19.72                       | 19.80                          | 19.51                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 502200                      | 518598                         | 534998                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |  |
| 30                   | QPSK       | 1       | 1         | 19.70                       | 19.80                          | 19.63                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 501204                      | 518598                         | 535998                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2506.02                     | 2592.99                        | 2679.99                      |                        |             |  |
| 20                   | QPSK       | 1       | 1         | 19.75                       | 19.76                          | 19.62                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 500700                      | 518598                         | 536498                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2502.03                     | 2592.99                        | 2682.49                      |                        |             |  |
| 15                   | QPSK       | 1       | 1         | 19.61                       | 19.73                          | 19.52                        | 20.5                   | 0.0         |  |
| Channel              |            |         |           | 500202                      | 518598                         | 537000                       | 25.5                   | 0.0         |  |
| Frequency (MHz)      |            |         |           | 2501.01                     | 2592.99                        | 2685                         |                        |             |  |
| 10                   | QPSK       | 1       | 1         | 19.73                       | 19.77                          | 19.65                        | 20.5                   | 0.0         |  |



Part96\_n48\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 636000                      | 641666                         | 645332                       | 18.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3570                        | 3624.99                        | 3679.98                      |                        |             |
| 40              | PI/2 BPSK  | 1       | 1         | 16.68                       | 16.79                          | 16.76                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 53        | 16.75                       | 16.86                          | 16.73                        | 18.0                   | 0.0         |
| 40              | PI/2 BPSK  | 1       | 104       | 16.92                       | 16.94                          | 16.85                        |                        |             |
| 40              | PI/2 BPSK  | 50      | 0         | 16.79                       | 16.88                          | 16.82                        |                        |             |
| 40              | PI/2 BPSK  | 50      | 28        | 16.80                       | 16.84                          | 16.75                        | 18.0                   | 0.0         |
| 40              | PI/2 BPSK  | 50      | 56        | 16.80                       | 16.85                          | 16.72                        | 18.0                   | 0.0         |
| 40              | PI/2 BPSK  | 100     | 0         | 16.81                       | 16.88                          | 16.82                        | 18.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 16.24                       | 16.97                          | 16.70                        | 18.0                   | 0.0         |
| 40              | QPSK       | 1       | 53        | 16.51                       | 16.85                          | 16.48                        |                        |             |
| 40              | QPSK       | 1       | 104       | 16.62                       | 16.91                          | 16.86                        |                        |             |
| 40              | QPSK       | 50      | 0         | 16.68                       | 16.94                          | 16.68                        | 18.0                   | 0.0         |
| 40              | QPSK       | 50      | 28        | 16.62                       | 16.90                          | 16.62                        |                        |             |
| 40              | QPSK       | 50      | 56        | 16.55                       | 16.85                          | 16.46                        |                        |             |
| 40              | QPSK       | 100     | 0         | 16.57                       | 16.90                          | 16.59                        | 18.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 16.72                       | 16.80                          | 16.61                        | 18.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 16.62                       | 16.94                          | 16.64                        | 18.0                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 16.71                       | 16.87                          | 16.58                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 637668                      | 641666                         | 645666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565.02                     | 3624.99                        | 3684.99                      | 18.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 16.59                       | 16.85                          | 16.70                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 637334                      | 641666                         | 646000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3560.01                     | 3624.99                        | 3690                         | 18.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 16.74                       | 16.92                          | 16.69                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 637168                      | 641666                         | 646166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.52                     | 3624.99                        | 3692.49                      | 18.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 16.59                       | 16.92                          | 16.63                        | 18.0                   | 0.0         |
| Channel         |            |         |           | 637090                      | 641666                         | 646332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3555                        | 3624.99                        | 3684.98                      | 18.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 16.60                       | 16.87                          | 16.60                        | 18.0                   | 0.0         |

Part96\_n48\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 638000                      | 641666                         | 645332                       | 14.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3570                        | 3624.99                        | 3679.98                      |                        |             |
| 40              | PI/2 BPSK  | 1       | 1         | 12.98                       | 13.03                          | 12.82                        |                        |             |
| 40              | PI/2 BPSK  | 1       | 53        | 13.06                       | 12.84                          | 12.86                        | 14.0                   | 0.0         |
| 40              | PI/2 BPSK  | 1       | 104       | 13.03                       | 13.03                          | 12.90                        |                        |             |
| 40              | PI/2 BPSK  | 50      | 0         | 13.03                       | 13.00                          | 12.85                        |                        |             |
| 40              | PI/2 BPSK  | 50      | 28        | 12.93                       | 13.08                          | 12.92                        | 14.0                   | 0.0         |
| 40              | PI/2 BPSK  | 50      | 56        | 13.02                       | 12.99                          | 12.88                        | 14.0                   | 0.0         |
| 40              | PI/2 BPSK  | 100     | 0         | 13.02                       | 13.06                          | 12.90                        | 14.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 12.85                       | 13.0                           | 12.92                        | 14.0                   | 0.0         |
| 40              | QPSK       | 1       | 53        | 12.95                       | 13.00                          | 12.82                        |                        |             |
| 40              | QPSK       | 1       | 104       | 12.96                       | 13.06                          | 12.79                        |                        |             |
| 40              | QPSK       | 50      | 0         | 12.87                       | 12.98                          | 12.84                        | 14.0                   | 0.0         |
| 40              | QPSK       | 50      | 28        | 12.99                       | 13.06                          | 12.87                        |                        |             |
| 40              | QPSK       | 50      | 56        | 12.98                       | 13.00                          | 12.78                        |                        |             |
| 40              | QPSK       | 100     | 0         | 12.87                       | 12.98                          | 12.91                        | 14.0                   | 0.0         |
| 40              | 16QAM      | 1       | 1         | 12.94                       | 13.05                          | 12.85                        | 14.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 13.03                       | 13.00                          | 12.80                        | 14.0                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 12.98                       | 12.91                          | 12.89                        | 14.0                   | 0.0         |
| Channel         |            |         |           | 637668                      | 641666                         | 645666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565.02                     | 3624.99                        | 3684.99                      | 14.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 12.85                       | 13.09                          | 12.84                        | 14.0                   | 0.0         |
| Channel         |            |         |           | 637334                      | 641666                         | 646000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3560.01                     | 3624.99                        | 3690                         | 14.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 13.01                       | 12.97                          | 12.92                        | 14.0                   | 0.0         |
| Channel         |            |         |           | 637168                      | 641666                         | 646166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.52                     | 3624.99                        | 3692.49                      | 14.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 12.89                       | 13.07                          | 12.85                        | 14.0                   | 0.0         |
| Channel         |            |         |           | 637090                      | 641666                         | 646332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3555                        | 3624.99                        | 3684.98                      | 14.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 12.90                       | 13.09                          | 12.82                        | 14.0                   | 0.0         |

Part27Q\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 639000                      | 633332                         | 633666                       | 16.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
| 100             | PI/2 BPSK  | 1       | 1         | 15.07                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 1       | 197       | 15.17                       |                                |                              | 16.0                   | 0.0         |
| 100             | PI/2 BPSK  | 1       | 271       | 15.24                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 0         | 15.01                       |                                |                              |                        |             |
| 100             | PI/2 BPSK  | 135     | 69        | 15.02                       |                                |                              | 16.0                   | 0.0         |
| 100             | PI/2 BPSK  | 135     | 138       | 15.08                       |                                |                              | 16.0                   | 0.0         |
| 100             | PI/2 BPSK  | 270     | 0         | 15.01                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 15.33                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 197       | 15.28                       |                                |                              | 16.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 15.25                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 14.96                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 15.31                       |                                |                              | 16.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 15.00                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 15.29                       |                                |                              |                        |             |
| 100             | 16QAM      | 1       | 1         | 15.08                       |                                |                              | 16.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 14.91                       |                                |                              | 16.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 15.23                       |                                |                              | 16.0                   | 0.0         |
| Channel         |            |         |           | 639000                      | 633332                         | 633666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3499.98                        | 3504.99                      | 16.0                   | 0.0         |
| 90              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 639000                      | 633332                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490.02                     | 3499.98                        | 3519.99                      | 16.0                   | 0.0         |
| 80              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633332                         | 634332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      | 16.0                   | 0.0         |
| 70              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 639000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3490                        | 3499.98                        | 3519.99                      | 16.0                   | 0.0         |
| 60              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 631868                      | 633332                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3499.98                        | 3525                         | 16.0                   | 0.0         |
| 50              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 631834                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      | 16.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3499.98                        | 3534.99                      | 16.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 630334                      | 633332                         | 635892                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3462.51                     | 3499.98                        | 3537.48                      | 16.0                   | 0.0         |
| 25              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3499.98                        | 3540                         | 16.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      | 16.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |
| Channel         |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      | 16.0                   | 0.0         |
| 10              | PI/2 BPSK  | 1       | 1         | 15.15                       | 15.23                          | 15.25                        | 16.0                   | 0.0         |



### Part27Q\_n77(HPUE)\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633332                      | 633332                         | 633332                       |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 3495.98                     |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 17.95                       |                                |                              | 19.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 271       | 18.11                       |                                |                              |                        |             |
| 100             | P12 BPSK   | 135     | 0         | 17.94                       |                                |                              | 19.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        | 17.93                       |                                |                              | 19.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       | 18.05                       |                                |                              | 19.0                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         | 17.92                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 18.21                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 137       | 18.05                       |                                |                              | 19.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 18.11                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 17.95                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 18.19                       |                                |                              | 19.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 17.86                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 18.15                       |                                |                              | 19.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 17.91                       |                                |                              | 19.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 17.83                       |                                |                              | 19.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 18.16                       |                                |                              | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633300                      | 633332                         | 633666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 90              | QPSK       | 1       | 1         | 3495                        | 3495.98                        | 3504.99                      | 19.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 633598                      | 633332                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 80              | QPSK       | 1       | 1         | 18.01                       | 18.12                          | 18.05                        | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632334                      | 633332                         | 634332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 70              | QPSK       | 1       | 1         | 3485.01                     | 3499.98                        | 3514.98                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632000                      | 633332                         | 634666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 60              | QPSK       | 1       | 1         | 3480                        | 3499.98                        | 3519.99                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631668                      | 633332                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 50              | QPSK       | 1       | 1         | 3475.02                     | 3499.98                        | 3525                         | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 40              | QPSK       | 1       | 1         | 3470.01                     | 3499.98                        | 3529.98                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 3465                        | 3499.98                        | 3534.99                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630664                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 3462.51                     | 3499.98                        | 3537.43                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 3460.02                     | 3499.98                        | 3540                         | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 3457.5                      | 3499.98                        | 3542.48                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | P12 BPSK   | 1       | 1         | 3455.01                     | 3499.98                        | 3544.98                      | 19.0                   | 0.0         |

### Part27O\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 650000                      | 650000                         | 650000                       |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 3750                        | 3840                           | 3930                         |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 15.16                       | 15.12                          | 14.91                        | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 271       | 15.14                       | 15.19                          | 15.09                        |                        |             |
| 100             | P12 BPSK   | 135     | 0         | 15.09                       | 15.14                          | 14.93                        | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        | 15.11                       | 15.11                          | 14.90                        | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       | 15.11                       | 15.16                          | 15.05                        | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 270       | 15.10                       | 15.17                          | 14.94                        | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         | 15.10                       | 15.17                          | 14.95                        | 16.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 15.21                       | 15.23                          | 15.23                        | 16.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 15.03                       | 15.12                          | 15.10                        |                        |             |
| 100             | QPSK       | 1       | 271       | 15.04                       | 15.11                          | 15.15                        |                        |             |
| 100             | QPSK       | 135     | 0         | 14.96                       | 15.18                          | 15.02                        |                        |             |
| 100             | QPSK       | 135     | 69        | 15.07                       | 15.21                          | 15.05                        | 16.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 15.05                       | 15.10                          | 14.89                        |                        |             |
| 100             | QPSK       | 270     | 0         | 15.08                       | 15.19                          | 14.94                        | 16.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 15.15                       | 15.14                          | 14.94                        | 16.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 14.96                       | 15.12                          | 14.90                        | 16.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 15.13                       | 15.13                          | 14.94                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649668                      | 650000                         | 650332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 90              | QPSK       | 1       | 1         | 3745.02                     | 3840                           | 3934.98                      | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649334                      | 650000                         | 650596                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 80              | QPSK       | 1       | 1         | 15.09                       | 15.22                          | 15.08                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649000                      | 650000                         | 650300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 70              | QPSK       | 1       | 1         | 3735                        | 3840                           | 3945                         | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648668                      | 650000                         | 650332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 60              | QPSK       | 1       | 1         | 3730.02                     | 3840                           | 3939.99                      | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648334                      | 650000                         | 650666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 50              | QPSK       | 1       | 1         | 3725.01                     | 3840                           | 3954.99                      | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648000                      | 650000                         | 650300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 40              | QPSK       | 1       | 1         | 3720                        | 3840                           | 3950                         | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647668                      | 650000                         | 650432                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 3715.02                     | 3840                           | 3954.98                      | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647334                      | 650000                         | 650596                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 3710.01                     | 3840                           | 3959.99                      | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647000                      | 650000                         | 650700                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 3707.52                     | 3840                           | 3972.48                      | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 646700                      | 650000                         | 650800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 3705                        | 3840                           | 3975                         | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 646334                      | 650000                         | 650934                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | P12 BPSK   | 1       | 1         | 3701.52                     | 3840                           | 3972.48                      | 16.0                   | 0.0         |

### Part27O\_n77(HPUE)\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 650000                      | 650000                         | 650000                       |                        |             |
|                 |            |         |           | 3750                        | 3840                           | 3930                         |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 17.94                       | 18.07                          | 17.95                        |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 18.20                       | 18.16                          | 18.12                        | 19.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 271       | 18.10                       | 18.23                          | 18.19                        |                        |             |
| 100             | P12 BPSK   | 135     | 0         | 18.15                       | 18.20                          | 18.19                        | 19.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        | 18.10                       | 18.14                          | 18.10                        | 19.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       | 18.13                       | 18.13                          | 18.06                        | 19.0                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         | 18.03                       | 18.09                          | 18.08                        |                        |             |
| 100             | QPSK       | 1       | 1         | 18.22                       | 18.24                          | 18.14                        |                        |             |
| 100             | QPSK       | 1       | 137       | 18.19                       | 18.16                          | 18.10                        | 19.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 18.18                       | 18.12                          | 18.13                        |                        |             |
| 100             | QPSK       | 135     | 0         | 18.00                       | 18.11                          | 17.89                        | 19.0                   | 0.0         |
| 100             | QPSK       | 135     | 69        | 18.02                       | 18.21                          | 18.02                        | 19.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 17.99                       | 18.04                          | 17.97                        |                        |             |
| 100             | QPSK       | 270     | 0         | 17.96                       | 18.18                          | 17.74                        | 19.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 17.97                       | 17.99                          | 17.77                        | 19.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 17.66                       | 17.91                          | 17.95                        | 19.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 18.21                       | 18.15                          | 18.15                        | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649668                      | 650000                         | 650332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 90              | QPSK       | 1       | 1         | 3745.02                     | 3840                           | 3934.98                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649334                      | 650000                         | 650596                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 80              | QPSK       | 1       | 1         | 18.08                       | 18.18                          | 18.12                        | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649000                      | 650000                         | 650300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 70              | QPSK       | 1       | 1         | 3735                        | 3840                           | 3945                         | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648668                      | 650000                         | 650332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 60              | QPSK       | 1       | 1         | 3730.02                     | 3840                           | 3939.98                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648334                      | 650000                         | 650666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 50              | QPSK       | 1       | 1         | 3725.01                     | 3840                           | 3954.99                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648000                      | 650000                         | 650300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 40              | QPSK       | 1       | 1         | 3720                        | 3840                           | 3960                         | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647668                      | 650000                         | 650666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 30              | QPSK       | 1       | 1         | 3715.02                     | 3840                           | 3964.98                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647334                      | 650000                         | 650998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 25              | QPSK       | 1       | 1         | 3710.01                     | 3840                           | 3969.99                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647000                      | 650000                         | 651300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 20              | QPSK       | 1       | 1         | 3705.00                     | 3840                           | 3975.00                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 646768                      | 650000                         | 651832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 15              | QPSK       | 1       | 1         | 3700.00                     | 3840                           | 3980.00                      | 19.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 646500                      | 650000                         | 652300                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| 10              | P12 BPSK   | 1       | 1         | 18.22                       | 18.22                          | 18.01                        | 19.0                   | 0.0         |



Part27Q\_n78\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633332                      |                                |                              |                        |             |
|                 |            |         |           | 3499.98                     |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 14.97                       |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 14.80                       |                                |                              | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 221       | 14.99                       |                                |                              |                        |             |
| 100             | P12 BPSK   | 135     | 0         | 14.81                       |                                |                              | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        | 14.78                       |                                |                              | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       | 14.83                       |                                |                              | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         | 14.83                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 15.20                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 137       | 15.09                       |                                |                              | 16.0                   | 0.0         |
| 100             | QPSK       | 1       | 221       | 15.00                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 14.80                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 15.17                       |                                |                              | 16.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 14.74                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 15.14                       |                                |                              | 16.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 14.73                       |                                |                              | 16.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 14.87                       |                                |                              | 16.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 15.06                       |                                |                              | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 15.03                       | 15.06                          | 15.15                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632958                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 14.75                       | 15.01                          | 14.87                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632934                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 14.75                       | 15.05                          | 15.10                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 14.81                       | 15.09                          | 15.08                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 14.83                       | 15.03                          | 15.15                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      |                        |             |
| 40              | QPSK       | 1       | 1         | 14.89                       | 14.93                          | 15.16                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3465                        | 3499.98                        | 3534.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 14.97                       | 14.82                          | 15.01                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630634                      | 633332                         | 635832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3462.51                     | 3499.98                        | 3537.48                      |                        |             |
| 25              | QPSK       | 1       | 1         | 14.81                       | 14.93                          | 14.92                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3460.02                     | 3499.98                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 14.78                       | 14.78                          | 15.17                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      |                        |             |
| 15              | QPSK       | 1       | 1         | 14.86                       | 15.05                          | 15.09                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      |                        |             |
| 10              | P12 BPSK   | 1       | 1         | 14.90                       | 15.12                          | 15.11                        | 16.0                   | 0.0         |

Part27Q\_n78\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 650000                         |                              |                        |             |
|                 |            |         |           | 3750                        |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 15.18                       |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 15.08                       |                                |                              | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 1       | 221       | 15.12                       |                                |                              |                        |             |
| 100             | P12 BPSK   | 135     | 0         | 15.11                       |                                |                              | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        | 15.12                       |                                |                              | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       | 15.16                       |                                |                              | 16.0                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         | 15.14                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 15.18                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 137       | 15.19                       |                                |                              | 16.0                   | 0.0         |
| 100             | QPSK       | 1       | 221       | 15.15                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 15.20                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 15.24                       |                                |                              | 16.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 15.17                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 15.21                       |                                |                              | 16.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 14.99                       |                                |                              | 16.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 14.84                       |                                |                              | 16.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 14.84                       |                                |                              | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649668                      | 650000                         | 650332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3745.02                     | 3750                           | 3754.98                      |                        |             |
| 90              | QPSK       | 1       | 1         | 15.01                       | 15.18                          | 15.08                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649334                      | 650000                         | 650666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3740.01                     | 3750                           | 3759.99                      |                        |             |
| 80              | QPSK       | 1       | 1         | 15.07                       | 14.99                          | 15.02                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649000                      | 650000                         | 651000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3735                        | 3750                           | 3765                         |                        |             |
| 70              | QPSK       | 1       | 1         | 14.88                       | 15.23                          | 14.89                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648668                      | 650000                         | 651332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3730.02                     | 3750                           | 3769.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 14.80                       | 14.96                          | 14.99                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648334                      | 650000                         | 651666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3725.01                     | 3750                           | 3774.99                      |                        |             |
| 50              | QPSK       | 1       | 1         | 14.80                       | 14.90                          | 14.86                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648000                      | 650000                         | 652000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3720                        | 3750                           | 3780                         |                        |             |
| 40              | QPSK       | 1       | 1         | 15.02                       | 15.13                          | 15.07                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647668                      | 650000                         | 652332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3715.02                     | 3750                           | 3784.98                      |                        |             |
| 30              | QPSK       | 1       | 1         | 14.77                       | 15.03                          | 14.93                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647334                      | 650000                         | 652666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3710.01                     | 3750                           | 3789.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 14.94                       | 15.04                          | 14.83                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647168                      | 650000                         | 652832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3707.52                     | 3750                           | 3792.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 14.81                       | 15.01                          | 14.86                        | 16.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647000                      | 650000                         | 653000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3705                        | 3750                           | 3795                         |                        |             |
| 10              | P12 BPSK   | 1       | 1         | 14.84                       | 15.21                          | 15.03                        | 16.0                   | 0.0         |

Part27Q\_n77\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633332                      |                                |                              |                        |             |
|                 |            |         |           | 3499.98                     |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 1         | 14.66                       |                                |                              |                        |             |
| 100             | P12 BPSK   | 1       | 137       | 14.60                       |                                |                              | 15.5                   | 0.0         |
| 100             | P12 BPSK   | 1       | 271       | 14.59                       |                                |                              |                        |             |
| 100             | P12 BPSK   | 135     | 0         | 14.61                       |                                |                              | 15.5                   | 0.0         |
| 100             | P12 BPSK   | 135     | 69        | 14.65                       |                                |                              | 15.5                   | 0.0         |
| 100             | P12 BPSK   | 135     | 138       | 14.61                       |                                |                              | 15.5                   | 0.0         |
| 100             | P12 BPSK   | 270     | 0         | 14.64                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 14.69                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 137       | 14.58                       |                                |                              | 15.5                   | 0.0         |
| 100             | QPSK       | 1       | 271       | 14.59                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 14.65                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 14.67                       |                                |                              | 15.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 14.63                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 14.65                       |                                |                              | 15.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 14.66                       |                                |                              | 15.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 14.46                       |                                |                              | 15.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 14.64                       |                                |                              | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633000                      | 633332                         | 633666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
| 90              | QPSK       | 1       | 1         | 14.66                       | 14.65                          | 14.64                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632668                      | 633332                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3490.02                     | 3499.98                        | 3500                         |                        |             |
| 80              | QPSK       | 1       | 1         | 14.68                       | 14.50                          | 14.48                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632334                      | 633332                         | 634332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      |                        |             |
| 70              | QPSK       | 1       | 1         | 14.39                       | 14.39                          | 14.44                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632000                      | 633332                         | 634666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3480                        | 3499.98                        | 3519.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 14.66                       | 14.39                          | 14.46                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631668                      | 633332                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3475.02                     | 3499.98                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 14.40                       | 14.51                          | 14.63                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      |                        |             |
| 40              | QPSK       | 1       | 1         | 14.57                       | 14.65                          | 14.68                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3465                        | 3499.98                        | 3534.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 14.44                       | 14.65                          | 14.43                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630634                      | 633332                         | 635832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3462.01                     | 3499.98                        | 3537.48                      |                        |             |
| 25              | QPSK       | 1       | 1         | 14.44                       | 14.44                          | 14.63                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630668                      | 633332                         | 635800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3460.02                     | 3499.98                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 14.52                       | 14.65                          | 14.39                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3457.5                      | 3499.98                        | 3542.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 14.63                       | 14.50                          | 14.54                        | 15.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      |                        |             |
| 10              | P12 BPSK   | 1       | 1         | 14.62                       | 14.41                          | 14.44                        | 15.5                   | 0.0         |



| Part270_n77(HPUe)_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                 |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |
| 100                     | PV2 BPSK   | 1       | 1         | 17.31                 |                          |                        | 18.5                | 0.0      |
| 100                     | PV2 BPSK   | 1       | 137       | 17.23                 |                          |                        |                     |          |
| 100                     | PV2 BPSK   | 1       | 221       | 17.21                 |                          |                        |                     |          |
| 100                     | PV2 BPSK   | 135     | 0         | 17.19                 |                          |                        | 18.5                | 0.0      |
| 100                     | PV2 BPSK   | 135     | 69        | 17.30                 |                          |                        | 18.5                | 0.0      |
| 100                     | PV2 BPSK   | 135     | 138       | 17.28                 |                          |                        | 18.5                | 0.0      |
| 100                     | PV2 BPSK   | 270     | 0         | 17.29                 |                          |                        | 18.5                | 0.0      |
| 100                     | QPSK       | 1       | 1         | 17.27                 |                          |                        |                     |          |
| 100                     | QPSK       | 1       | 137       | 17.26                 |                          |                        |                     |          |
| 100                     | QPSK       | 1       | 221       | 17.17                 |                          |                        | 18.5                | 0.0      |
| 100                     | QPSK       | 135     | 0         | 17.36                 |                          |                        |                     |          |
| 100                     | QPSK       | 135     | 69        | 17.26                 |                          |                        |                     |          |
| 100                     | QPSK       | 135     | 138       | 17.28                 |                          |                        | 18.5                | 0.0      |
| 100                     | QPSK       | 270     | 0         | 17.33                 |                          |                        | 18.5                | 0.0      |
| 100                     | 16QAM      | 1       | 1         | 17.36                 |                          |                        | 18.5                | 0.0      |
| 100                     | 64QAM      | 1       | 1         | 17.14                 |                          |                        | 18.5                | 0.0      |
| 100                     | 256QAM     | 1       | 1         | 17.30                 |                          |                        | 18.5                | 0.0      |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90                      | QPSK       | 1       | 1         | 17.12                 | 17.08                    | 17.19                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 633666                | 633332                   | 633000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80                      | QPSK       | 1       | 1         | 17.02                 | 17.01                    | 17.06                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70                      | QPSK       | 1       | 1         | 17.11                 | 17.00                    | 17.19                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60                      | QPSK       | 1       | 1         | 16.98                 | 17.02                    | 17.19                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50                      | QPSK       | 1       | 1         | 17.02                 | 17.05                    | 17.12                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40                      | QPSK       | 1       | 1         | 16.95                 | 16.99                    | 17.12                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30                      | QPSK       | 1       | 1         | 17.08                 | 16.95                    | 17.14                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 630334                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 25                      | QPSK       | 1       | 1         | 16.94                 | 16.98                    | 17.15                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20                      | QPSK       | 1       | 1         | 17.04                 | 16.96                    | 17.18                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15                      | QPSK       | 1       | 1         | 16.95                 | 17.02                    | 17.18                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10                      | PV2 BPSK   | 1       | 1         | 17.04                 | 17.03                    | 17.16                  | 18.5                | 0.0      |

| Part270_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 650000                | 656000                   | 662000                 |                     |          |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100               | PV2 BPSK   | 1       | 1         | 14.18                 | 14.33                    | 14.33                  | 15.5                | 0.0      |
| 100               | PV2 BPSK   | 1       | 137       | 14.40                 | 14.51                    | 14.46                  |                     |          |
| 100               | PV2 BPSK   | 1       | 221       | 14.54                 | 14.54                    | 14.56                  |                     |          |
| 100               | PV2 BPSK   | 135     | 0         | 14.48                 | 14.37                    | 14.44                  | 15.5                | 0.0      |
| 100               | PV2 BPSK   | 135     | 69        | 14.55                 | 14.61                    | 14.56                  | 15.5                | 0.0      |
| 100               | PV2 BPSK   | 135     | 138       | 14.55                 | 14.54                    | 14.38                  | 15.5                | 0.0      |
| 100               | PV2 BPSK   | 270     | 0         | 14.49                 | 14.50                    | 14.54                  | 15.5                | 0.0      |
| 100               | QPSK       | 1       | 1         | 14.62                 | 14.76                    | 14.70                  |                     |          |
| 100               | QPSK       | 1       | 137       | 14.47                 | 14.51                    | 14.39                  |                     |          |
| 100               | QPSK       | 1       | 221       | 14.52                 | 14.72                    | 14.65                  | 15.5                | 0.0      |
| 100               | QPSK       | 135     | 0         | 14.28                 | 14.44                    | 14.44                  |                     |          |
| 100               | QPSK       | 135     | 69        | 14.59                 | 14.74                    | 14.56                  |                     |          |
| 100               | QPSK       | 135     | 138       | 14.44                 | 14.52                    | 14.48                  | 15.5                | 0.0      |
| 100               | QPSK       | 270     | 0         | 14.63                 | 14.72                    | 14.48                  | 15.5                | 0.0      |
| 100               | 16QAM      | 1       | 1         | 14.25                 | 14.22                    | 14.13                  | 15.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 14.04                 | 14.08                    | 13.93                  | 15.5                | 0.0      |
| 100               | 256QAM     | 1       | 1         | 14.19                 | 14.16                    | 14.01                  | 15.5                | 0.0      |
| Channel           |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |
| 90                | QPSK       | 1       | 1         | 14.62                 | 14.70                    | 14.59                  | 15.5                | 0.0      |
| Channel           |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.98                |                     |          |
| 80                | QPSK       | 1       | 1         | 14.53                 | 14.73                    | 14.66                  | 15.5                | 0.0      |
| Channel           |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |
| 70                | QPSK       | 1       | 1         | 14.60                 | 14.65                    | 14.63                  | 15.5                | 0.0      |
| Channel           |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |
| 60                | QPSK       | 1       | 1         | 14.53                 | 14.75                    | 14.67                  | 15.5                | 0.0      |
| Channel           |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |
| 50                | QPSK       | 1       | 1         | 14.49                 | 14.71                    | 14.58                  | 15.5                | 0.0      |
| Channel           |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40                | QPSK       | 1       | 1         | 14.47                 | 14.73                    | 14.63                  | 15.5                | 0.0      |
| Channel           |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30                | QPSK       | 1       | 1         | 14.59                 | 14.64                    | 14.62                  | 15.5                | 0.0      |
| Channel           |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |
| 25                | QPSK       | 1       | 1         | 14.52                 | 14.63                    | 14.59                  | 15.5                | 0.0      |
| Channel           |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |
| 20                | QPSK       | 1       | 1         | 14.53                 | 14.70                    | 14.62                  | 15.5                | 0.0      |
| Channel           |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |
| 15                | QPSK       | 1       | 1         | 14.60                 | 14.63                    | 14.68                  | 15.5                | 0.0      |
| Channel           |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10                | PV2 BPSK   | 1       | 1         | 14.58                 | 14.64                    | 14.67                  | 15.5                | 0.0      |

| Part270_n77(HPUe)_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                 |            |         |           | 650000                | 656000                   | 662000                 |                     |          |
| Frequency (MHz)         |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100                     | PV2 BPSK   | 1       | 1         | 17.29                 | 17.36                    | 17.24                  | 18.5                | 0.0      |
| 100                     | PV2 BPSK   | 1       | 137       | 17.27                 | 17.34                    | 17.21                  |                     |          |
| 100                     | PV2 BPSK   | 1       | 221       | 17.24                 | 17.34                    | 17.17                  |                     |          |
| 100                     | PV2 BPSK   | 135     | 0         | 16.90                 | 16.95                    | 16.83                  | 18.5                | 0.0      |
| 100                     | PV2 BPSK   | 135     | 69        | 16.76                 | 17.34                    | 17.19                  | 18.5                | 0.0      |
| 100                     | PV2 BPSK   | 135     | 138       | 16.73                 | 16.80                    | 16.82                  | 18.5                | 0.0      |
| 100                     | PV2 BPSK   | 270     | 0         | 17.04                 | 17.13                    | 17.07                  | 18.5                | 0.0      |
| 100                     | QPSK       | 1       | 1         | 17.30                 | 17.38                    | 17.26                  |                     |          |
| 100                     | QPSK       | 1       | 137       | 17.25                 | 17.31                    | 17.19                  |                     |          |
| 100                     | QPSK       | 1       | 221       | 17.08                 | 17.11                    | 17.15                  | 18.5                | 0.0      |
| 100                     | QPSK       | 135     | 0         | 17.20                 | 17.32                    | 17.10                  | 18.5                | 0.0      |
| 100                     | QPSK       | 135     | 69        | 17.34                 | 17.37                    | 17.16                  |                     |          |
| 100                     | QPSK       | 135     | 138       | 17.22                 | 17.26                    | 17.06                  |                     |          |
| 100                     | QPSK       | 270     | 0         | 17.12                 | 17.35                    | 17.18                  | 18.5                | 0.0      |
| 100                     | 16QAM      | 1       | 1         | 17.17                 | 17.34                    | 17.07                  | 18.5                | 0.0      |
| 100                     | 64QAM      | 1       | 1         | 17.12                 | 17.36                    | 17.11                  | 18.5                | 0.0      |
| 100                     | 256QAM     | 1       | 1         | 17.08                 | 17.24                    | 17.12                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |
| 90                      | QPSK       | 1       | 1         | 17.26                 | 17.31                    | 17.15                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3740.01               | 3840                     | 3939.98                |                     |          |
| 80                      | QPSK       | 1       | 1         | 17.23                 | 17.28                    | 17.17                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |
| 70                      | QPSK       | 1       | 1         | 17.24                 | 17.28                    | 17.23                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |
| 60                      | QPSK       | 1       | 1         | 17.20                 | 17.31                    | 17.23                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |
| 50                      | QPSK       | 1       | 1         | 17.12                 | 17.30                    | 17.14                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40                      | QPSK       | 1       | 1         | 17.15                 | 17.31                    | 17.19                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30                      | QPSK       | 1       | 1         | 17.28                 | 17.33                    | 17.21                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 647500                | 656000                   | 664500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3712.5                | 3840                     | 3957.5                 |                     |          |
| 25                      | QPSK       | 1       | 1         | 17.28                 | 17.37                    | 17.26                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                     | 3960.99                |                     |          |
| 20                      | QPSK       | 1       | 1         | 17.18                 | 17.36                    | 17.22                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3707.52               | 3840                     | 3952.48                |                     |          |
| 15                      | QPSK       | 1       | 1         | 17.19                 | 17.37                    | 17.27                  | 18.5                | 0.0      |
| Channel                 |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3705                  | 3840                     | 3955                   |                     |          |
| 10                      | PV2 BPSK   | 1       | 1         | 17.19                 | 17.29                    | 17.16                  | 18.5                | 0.0      |

| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |
| 100               | P12 BPSK   | 1       | 1         | 14.37                 |                          |                        | 15.5                | 0.0      |
| 100               | P12 BPSK   | 1       | 137       | 14.25                 |                          |                        |                     |          |
| 100               | P12 BPSK   | 1       | 271       | 14.23                 |                          |                        |                     |          |
| 100               | P12 BPSK   | 135     | 0         | 14.29                 |                          |                        | 15.5                | 0.0      |
| 100               | P12 BPSK   | 135     | 69        | 14.27                 |                          |                        | 15.5                | 0.0      |
| 100               | P12 BPSK   | 135     | 138       | 14.28                 |                          |                        | 15.5                | 0.0      |
| 100               | P12 BPSK   | 270     | 0         | 14.28                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 1         | 14.47                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 137       | 14.26                 |                          |                        | 15.5                | 0.0      |
| 100               | QPSK       | 1       | 271       | 14.21                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 0         | 14.44                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 69        | 14.30                 |                          |                        | 15.5                | 0.0      |
| 100               | QPSK       | 135     | 138       | 14.30                 |                          |                        |                     |          |
| 100               | QPSK       | 270     | 0         | 14.43                 |                          |                        |                     |          |
| 100               | 16QAM      | 1       | 1         | 14.30                 |                          |                        | 15.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 14.18                 |                          |                        | 15.5                | 0.0      |
| 100               | 256QAM     | 1       | 1         | 14.31                 |                          |                        | 15.5                | 0.0      |
| Channel           |            |         |           | 633000                | 633334                   | 633668                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3495                  | 3500.01                  | 3505.02                |                     |          |
| 90                | QPSK       | 1       | 1         | 14.32                 | 14.40                    | 14.42                  | 15.5                | 0.0      |
| Channel           |            |         |           | 632668                | 633334                   | 634000                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3497.02               | 3500.01                  | 3503.00                |                     |          |
| 80                | QPSK       | 1       | 1         | 14.28                 | 14.34                    | 14.37                  | 15.5                | 0.0      |
| Channel           |            |         |           | 632334                | 633334                   | 634334                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3485.01               | 3500.01                  | 3515.01                |                     |          |
| 70                | QPSK       | 1       | 1         | 14.14                 | 14.32                    | 14.29                  | 15.5                | 0.0      |
| Channel           |            |         |           | 632000                | 633334                   | 634668                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3490                  | 3500.01                  | 3510.02                |                     |          |
| 60                | QPSK       | 1       | 1         | 14.20                 | 14.18                    | 14.26                  | 15.5                | 0.0      |
| Channel           |            |         |           | 631668                | 633334                   | 635000                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3475.02               | 3500.01                  | 3525.00                |                     |          |
| 50                | QPSK       | 1       | 1         | 14.24                 | 14.38                    | 14.23                  | 15.5                | 0.0      |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40                | QPSK       | 1       | 1         | 14.23                 | 14.25                    | 14.20                  | 15.5                | 0.0      |
| Channel           |            |         |           | 631000                | 633332                   | 635668                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30                | QPSK       | 1       | 1         | 14.08                 | 14.40                    | 14.33                  | 15.5                | 0.0      |
| Channel           |            |         |           | 630684                | 633332                   | 635832                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25                | QPSK       | 1       | 1         | 14.27                 | 14.25                    | 14.38                  | 15.5                | 0.0      |
| Channel           |            |         |           | 630468                | 633332                   | 636000                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20                | QPSK       | 1       | 1         | 14.26                 | 14.44                    | 14.40                  | 15.5                | 0.0      |
| Channel           |            |         |           | 630500                | 633332                   | 636168                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15                | QPSK       | 1       | 1         | 14.19                 | 14.23                    | 14.41                  | 15.5                | 0.0      |
| Channel           |            |         |           | 630332                | 633332                   | 636332                 | Time-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10                | P12 BPSK   | 1       | 1         | 14.22                 | 14.19                    | 14.32                  | 15.5                | 0.0      |

| Part270_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Time-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |  |
| 100               | PV2 BPSK   | 1       | 1         |                       | 14.28                    |                        |                     |          |  |
| 100               | PV2 BPSK   | 1       | 137       |                       | 14.16                    |                        | 15.5                | 0.0      |  |
| 100               | PV2 BPSK   | 1       | 271       |                       | 14.30                    |                        |                     |          |  |
| 100               | PV2 BPSK   | 135     | 0         |                       | 14.22                    |                        | 15.5                | 0.0      |  |
| 100               | PV2 BPSK   | 135     | 69        |                       | 14.40                    |                        | 15.5                | 0.0      |  |
| 100               | PV2 BPSK   | 135     | 138       |                       | 14.40                    |                        | 15.5                | 0.0      |  |
| 100               | PV2 BPSK   | 270     | 0         |                       | 14.35                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 14.56                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 14.24                    |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 14.35                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 14.19                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 69        |                       | 14.55                    |                        | 15.5                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 14.36                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 14.53                    |                        | 15.5                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 14.15                    |                        | 15.5                | 0.0      |  |
| 100               | 8QAM       | 1       | 1         |                       | 15.30                    |                        | 15.5                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 13.83                    |                        | 15.5                | 0.0      |  |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 14.45                 | 14.43                    | 14.38                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 14.28                 | 14.38                    | 14.27                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 649000                | 650000                   | 651000                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 14.43                 | 14.49                    | 14.29                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 14.44                 | 14.43                    | 14.19                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 14.38                 | 14.40                    | 14.35                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 14.53                 | 14.48                    | 14.16                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 14.41                 | 14.38                    | 14.20                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647500                | 650000                   | 652500                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3712.5                | 3750                     | 3787.5                 |                     |          |  |
| 25                | QPSK       | 1       | 1         | 14.32                 | 14.18                    | 14.10                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 14.47                 | 14.49                    | 14.16                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647168                | 650000                   | 652832                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 14.32                 | 14.30                    | 14.38                  | 15.5                | 0.0      |  |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Time-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |  |
| 10                | PV2 BPSK   | 1       | 1         | 14.52                 | 14.38                    | 14.34                  | 15.5                | 0.0      |  |

| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Turn-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | P12 BPSK   | 1       | 1         |                       | 12.08                    |                        |                     |          |  |
| 100               | P12 BPSK   | 1       | 137       |                       | 12.02                    |                        | 13.0                | 0.0      |  |
| 100               | P12 BPSK   | 1       | 271       |                       | 11.96                    |                        |                     |          |  |
| 100               | P12 BPSK   | 135     | 0         |                       | 11.86                    |                        | 13.0                | 0.0      |  |
| 100               | P12 BPSK   | 135     | 69        |                       | 11.80                    |                        | 13.0                | 0.0      |  |
| 100               | P12 BPSK   | 135     | 138       |                       | 11.80                    |                        | 13.0                | 0.0      |  |
| 100               | P12 BPSK   | 270     | 0         |                       | 11.64                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 1         |                       | 12.29                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 137       |                       | 12.03                    |                        | 13.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       |                       | 11.99                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 11.96                    |                        | 13.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 12.26                    |                        | 13.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 12.04                    |                        |                     |          |  |
| 100               | QPSK       | 270     | 0         |                       | 12.24                    |                        | 13.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 12.19                    |                        | 13.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 11.85                    |                        | 13.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 11.84                    |                        | 13.0                | 0.0      |  |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 12.24                 | 12.18                    | 12.21                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 633668                | 633332                   | 634000                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3497.02               | 3499.98                  | 3502.98                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 12.18                 | 11.93                    | 12.02                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 11.96                 | 11.98                    | 12.22                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 11.99                 | 11.91                    | 12.22                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 631988                | 633332                   | 635000                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 12.18                 | 12.14                    | 12.00                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 12.04                 | 12.01                    | 12.10                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635866                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 12.14                 | 12.18                    | 12.12                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 630834                | 633332                   | 636832                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |  |
| 25                | QPSK       | 1       | 1         | 12.02                 | 12.14                    | 12.10                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 630666                | 633332                   | 637000                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 12.04                 | 12.14                    | 12.06                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 630500                | 633332                   | 638166                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 12.08                 | 12.00                    | 12.04                  | 13.0                | 0.0      |  |
| Channel           |            |         |           | 630332                | 633332                   | 639332                 | Turn-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.99                |                     |          |  |
| 10                | P12 BPSK   | 1       | 1         | 12.16                 | 12.19                    | 12.01                  | 13.0                | 0.0      |  |



| Part27Q_n77(HPUe)_Ant 8 |            |         |           |                             |                                |                              |                        |             |  |
|-------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                 |            |         |           | 650000                      | 656000                         | 662000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3750                        | 3840                           | 3930                         |                        |             |  |
| 100                     | PV2 BPSK   | 1       | 1         | 15.11                       | 15.11                          | 15.11                        | 16.0                   | 0.0         |  |
| 100                     | PV2 BPSK   | 1       | 137       | 15.04                       | 15.04                          | 15.04                        |                        |             |  |
| 100                     | PV2 BPSK   | 1       | 221       | 14.93                       | 14.93                          | 14.93                        |                        |             |  |
| 100                     | PV2 BPSK   | 135     | 0         | 15.04                       | 15.04                          | 15.04                        |                        |             |  |
| 100                     | PV2 BPSK   | 135     | 69        | 14.91                       | 14.91                          | 14.91                        | 16.0                   | 0.0         |  |
| 100                     | PV2 BPSK   | 135     | 138       | 14.84                       | 14.84                          | 14.84                        | 16.0                   | 0.0         |  |
| 100                     | PV2 BPSK   | 270     | 0         | 14.93                       | 14.93                          | 14.93                        | 16.0                   | 0.0         |  |
| 100                     | QPSK       | 1       | 1         | 15.23                       | 15.23                          | 15.23                        |                        |             |  |
| 100                     | QPSK       | 1       | 137       | 15.08                       | 15.08                          | 15.08                        |                        |             |  |
| 100                     | QPSK       | 1       | 221       | 15.02                       | 15.02                          | 15.02                        |                        |             |  |
| 100                     | QPSK       | 135     | 0         | 15.03                       | 15.03                          | 15.03                        | 16.0                   | 0.0         |  |
| 100                     | QPSK       | 135     | 69        | 15.30                       | 15.30                          | 15.30                        |                        |             |  |
| 100                     | QPSK       | 135     | 138       | 14.84                       | 14.84                          | 14.84                        |                        |             |  |
| 100                     | QPSK       | 270     | 0         | 15.28                       | 15.28                          | 15.28                        |                        |             |  |
| 100                     | 16QAM      | 1       | 1         | 15.28                       | 15.28                          | 15.28                        | 16.0                   | 0.0         |  |
| 100                     | 64QAM      | 1       | 1         | 14.89                       | 14.89                          | 14.89                        | 16.0                   | 0.0         |  |
| 100                     | 256QAM     | 1       | 1         | 15.02                       | 15.02                          | 15.02                        | 16.0                   | 0.0         |  |
| Channel                 |            |         |           | 633000                      | 633332                         | 633666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3485                        | 3499.98                        | 3504.99                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 90                      | QPSK       | 1       | 1         | 15.10                       | 15.15                          | 15.03                        |                        | 0.0         |  |
| Channel                 |            |         |           | 632959                      | 633332                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02                     | 3499.98                        | 3510                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 80                      | QPSK       | 1       | 1         | 14.95                       | 15.09                          | 14.90                        |                        | 0.0         |  |
| Channel                 |            |         |           | 632534                      | 633332                         | 634332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 70                      | QPSK       | 1       | 1         | 15.03                       | 15.04                          | 15.02                        |                        | 0.0         |  |
| Channel                 |            |         |           | 632009                      | 633332                         | 634666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3480.02                     | 3499.98                        | 3510                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 60                      | QPSK       | 1       | 1         | 15.05                       | 15.08                          | 14.99                        |                        | 0.0         |  |
| Channel                 |            |         |           | 631668                      | 633332                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02                     | 3499.98                        | 3525                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 50                      | QPSK       | 1       | 1         | 15.08                       | 15.04                          | 15.03                        |                        | 0.0         |  |
| Channel                 |            |         |           | 631134                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 40                      | QPSK       | 1       | 1         | 15.05                       | 15.08                          | 14.91                        |                        | 0.0         |  |
| Channel                 |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3465                        | 3499.98                        | 3534.99                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 30                      | QPSK       | 1       | 1         | 15.06                       | 15.12                          | 15.00                        |                        | 0.0         |  |
| Channel                 |            |         |           | 630534                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3460.51                     | 3499.98                        | 3537.43                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 25                      | QPSK       | 1       | 1         | 14.93                       | 15.11                          | 14.90                        |                        | 0.0         |  |
| Channel                 |            |         |           | 630968                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02                     | 3499.98                        | 3540                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 20                      | QPSK       | 1       | 1         | 15.03                       | 15.05                          | 15.00                        |                        | 0.0         |  |
| Channel                 |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 15                      | QPSK       | 1       | 1         | 14.93                       | 15.09                          | 14.97                        |                        | 0.0         |  |
| Channel                 |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 10                      | PV2 BPSK   | 1       | 1         | 15.02                       | 15.12                          | 15.02                        |                        | 0.0         |  |

| Part27O_n77_Ant 8 |            |         |           |                             |                                |                              |                        |             |  |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel           |            |         |           | 650000                      | 656000                         | 662000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3750                        | 3840                           | 3930                         |                        |             |  |
| 100               | PV2 BPSK   | 1       | 1         | 11.66                       | 11.79                          | 11.72                        | 13.0                   | 0.0         |  |
| 100               | PV2 BPSK   | 1       | 137       | 11.60                       | 11.71                          | 11.69                        |                        |             |  |
| 100               | PV2 BPSK   | 1       | 221       | 11.72                       | 11.72                          | 11.62                        |                        |             |  |
| 100               | PV2 BPSK   | 135     | 0         | 11.71                       | 11.82                          | 11.74                        |                        |             |  |
| 100               | PV2 BPSK   | 135     | 69        | 11.72                       | 11.76                          | 11.74                        | 13.0                   | 0.0         |  |
| 100               | PV2 BPSK   | 135     | 138       | 11.48                       | 11.58                          | 11.55                        | 13.0                   | 0.0         |  |
| 100               | PV2 BPSK   | 270     | 0         | 11.57                       | 11.63                          | 11.62                        | 13.0                   | 0.0         |  |
| 100               | QPSK       | 1       | 1         | 11.81                       | 11.88                          | 11.82                        |                        |             |  |
| 100               | QPSK       | 1       | 137       | 11.80                       | 11.84                          | 11.78                        |                        |             |  |
| 100               | QPSK       | 1       | 221       | 11.71                       | 11.75                          | 11.71                        |                        |             |  |
| 100               | QPSK       | 135     | 0         | 11.82                       | 11.71                          | 11.80                        | 13.0                   | 0.0         |  |
| 100               | QPSK       | 135     | 69        | 11.83                       | 11.67                          | 11.82                        |                        |             |  |
| 100               | QPSK       | 135     | 138       | 11.69                       | 11.63                          | 11.75                        |                        |             |  |
| 100               | QPSK       | 270     | 0         | 11.81                       | 11.85                          | 11.71                        |                        |             |  |
| 100               | 16QAM      | 1       | 1         | 11.89                       | 11.74                          | 11.85                        | 13.0                   | 0.0         |  |
| 100               | 64QAM      | 1       | 1         | 11.77                       | 11.84                          | 11.71                        | 13.0                   | 0.0         |  |
| 100               | 256QAM     | 1       | 1         | 11.82                       | 11.87                          | 11.77                        | 13.0                   | 0.0         |  |
| Channel           |            |         |           | 649668                      | 656000                         | 662332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02                     | 3840                           | 3934.98                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 90                | QPSK       | 1       | 1         | 11.76                       | 11.75                          | 11.77                        |                        | 0.0         |  |
| Channel           |            |         |           | 649334                      | 656000                         | 662666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01                     | 3840                           | 3939.98                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 80                | QPSK       | 1       | 1         | 11.72                       | 11.87                          | 11.86                        |                        | 0.0         |  |
| Channel           |            |         |           | 649000                      | 656000                         | 663000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3735                        | 3840                           | 3945                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 70                | QPSK       | 1       | 1         | 11.86                       | 11.86                          | 11.85                        |                        | 0.0         |  |
| Channel           |            |         |           | 648666                      | 656000                         | 663332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02                     | 3840                           | 3949.98                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 60                | QPSK       | 1       | 1         | 11.58                       | 11.88                          | 11.78                        |                        | 0.0         |  |
| Channel           |            |         |           | 648334                      | 656000                         | 663666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01                     | 3840                           | 3954.99                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 50                | QPSK       | 1       | 1         | 11.84                       | 11.77                          | 11.81                        |                        | 0.0         |  |
| Channel           |            |         |           | 648000                      | 656000                         | 664000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3720                        | 3840                           | 3960                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 40                | QPSK       | 1       | 1         | 11.83                       | 11.86                          | 11.84                        |                        | 0.0         |  |
| Channel           |            |         |           | 647668                      | 656000                         | 664332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02                     | 3840                           | 3964.98                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 30                | QPSK       | 1       | 1         | 11.79                       | 11.80                          | 11.81                        |                        | 0.0         |  |
| Channel           |            |         |           | 647500                      | 656000                         | 664500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3712.5                      | 3840                           | 3971.5                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 25                | QPSK       | 1       | 1         | 11.81                       | 11.82                          | 11.76                        |                        | 0.0         |  |
| Channel           |            |         |           | 647334                      | 656000                         | 664666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01                     | 3840                           | 3969.99                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 20                | QPSK       | 1       | 1         | 11.86                       | 11.85                          | 11.80                        |                        | 0.0         |  |
| Channel           |            |         |           | 647168                      | 656000                         | 664832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52                     | 3840                           | 3972.48                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 15                | QPSK       | 1       | 1         | 11.85                       | 11.85                          | 11.78                        |                        | 0.0         |  |
| Channel           |            |         |           | 647000                      | 656000                         | 665000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)   |            |         |           | 3705                        | 3840                           | 3975                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| 10                | PV2 BPSK   | 1       | 1         | 11.82                       | 11.76                          | 11.73                        |                        | 0.0         |  |

| Part27O_n77(HPUe)_Ant 8 |            |                 |           |                             |                                |                              |                        |             |     |
|-------------------------|------------|-----------------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|-----|
| BW [MHz]                | Modulation | RB Size         | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel                 |            |                 |           | 650000                      | 656000                         | 662000                       |                        |             |     |
|                         |            | Frequency (MHz) |           | 3750                        | 3840                           | 3930                         |                        |             |     |
| 100                     | Pi2 BPSK   | 1               | 1         | 15.05                       | 14.89                          | 15.04                        |                        |             |     |
| 100                     | Pi2 BPSK   | 1               | 137       | 15.09                       | 15.04                          | 15.04                        | 16.0                   |             | 0.0 |
| 100                     | Pi2 BPSK   | 1               | 271       | 14.97                       | 14.84                          | 14.96                        |                        |             |     |
| 100                     | Pi2 BPSK   | 135             | 0         | 15.02                       | 14.99                          | 14.91                        | 16.0                   |             | 0.0 |
| 100                     | Pi2 BPSK   | 135             | 69        | 14.90                       | 14.79                          | 14.78                        | 16.0                   |             | 0.0 |
| 100                     | Pi2 BPSK   | 135             | 138       | 14.87                       | 14.74                          | 14.75                        | 16.0                   |             | 0.0 |
| 100                     | Pi2 BPSK   | 270             | 0         | 14.91                       | 14.86                          | 14.79                        | 16.0                   |             | 0.0 |
| 100                     | QPSK       | 1               | 1         | 15.05                       | 15.16                          | 15.08                        |                        |             |     |
| 100                     | QPSK       | 1               | 137       | 15.08                       | 15.11                          | 15.08                        | 16.0                   |             | 0.0 |
| 100                     | QPSK       | 1               | 271       | 15.06                       | 14.92                          | 14.97                        | 16.0                   |             | 0.0 |
| 100                     | QPSK       | 135             | 0         | 14.89                       | 15.12                          | 15.00                        |                        |             |     |
| 100                     | QPSK       | 135             | 69        | 14.93                       | 15.14                          | 15.05                        | 16.0                   |             | 0.0 |
| 100                     | QPSK       | 135             | 138       | 14.83                       | 15.04                          | 14.97                        |                        |             |     |
| 100                     | QPSK       | 270             | 0         | 14.86                       | 15.12                          | 14.95                        | 16.0                   |             | 0.0 |
| 100                     | 16QAM      | 1               | 1         | 15.01                       | 14.98                          | 14.83                        | 16.0                   |             | 0.0 |
| 100                     | 64QAM      | 1               | 1         | 14.98                       | 14.92                          | 14.87                        | 16.0                   |             | 0.0 |
| 100                     | 256QAM     | 1               | 1         | 14.80                       | 14.79                          | 14.77                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 649968                      | 656000                         | 662332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3745.02                     | 3840                           | 3934.98                      |                        |             |     |
| 90                      | QPSK       | 1               | 1         | 14.91                       | 15.13                          | 14.86                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 649334                      | 656000                         | 662696                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3740.01                     | 3840                           | 3939.99                      |                        |             |     |
| 80                      | QPSK       | 1               | 1         | 15.02                       | 14.93                          | 14.81                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 649000                      | 656000                         | 663000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3735                        | 3840                           | 3945                         |                        |             |     |
| 70                      | QPSK       | 1               | 1         | 14.92                       | 15.09                          | 15.15                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 648668                      | 656000                         | 663332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3730.02                     | 3840                           | 3945.98                      |                        |             |     |
| 60                      | QPSK       | 1               | 1         | 14.88                       | 14.96                          | 15.04                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 648334                      | 656000                         | 663696                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3725.01                     | 3840                           | 3954.99                      |                        |             |     |
| 50                      | QPSK       | 1               | 1         | 15.08                       | 15.12                          | 15.13                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 648000                      | 656000                         | 664000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3720                        | 3840                           | 3960                         |                        |             |     |
| 40                      | QPSK       | 1               | 1         | 15.15                       | 15.04                          | 15.11                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 647668                      | 656000                         | 664332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3715.02                     | 3840                           | 3964.98                      |                        |             |     |
| 30                      | QPSK       | 1               | 1         | 14.97                       | 14.91                          | 14.80                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 647500                      | 656000                         | 664500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3712.5                      | 3840                           | 3972.5                       |                        |             |     |
| 25                      | QPSK       | 1               | 1         | 14.97                       | 15.13                          | 15.13                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 647334                      | 656000                         | 664696                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3710.01                     | 3840                           | 3969.99                      |                        |             |     |
| 20                      | QPSK       | 1               | 1         | 14.90                       | 14.98                          | 15.03                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 647168                      | 656000                         | 664832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3707.52                     | 3840                           | 3972.48                      |                        |             |     |
| 15                      | QPSK       | 1               | 1         | 15.00                       | 15.11                          | 15.11                        | 16.0                   |             | 0.0 |
| Channel                 |            |                 |           | 647000                      | 656000                         | 665000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            | Frequency (MHz) |           | 3705                        | 3840                           | 3975                         |                        |             |     |
| 10                      | Pi2 BPSK   | 1               | 1         | 15.07                       | 15.13                          | 15.08                        | 16.0                   |             | 0.0 |



| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332                |                          | 650000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 1         |                       | 11.79                    |                        | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 137       |                       | 11.97                    |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 271       |                       | 11.81                    |                        |                     |          |
| 100               | PI2 BPSK   | 135     | 0         |                       | 11.80                    |                        | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 69        |                       | 11.85                    |                        | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 11.81                    |                        | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 11.86                    |                        |                     |          |
| 100               | QPSK       | 1       | 1         |                       | 12.24                    |                        |                     |          |
| 100               | QPSK       | 1       | 137       |                       | 12.00                    |                        | 13.0                | 0.0      |
| 100               | QPSK       | 1       | 271       |                       | 11.85                    |                        |                     |          |
| 100               | QPSK       | 135     | 0         |                       | 11.83                    |                        |                     |          |
| 100               | QPSK       | 135     | 69        |                       | 12.21                    |                        | 13.0                | 0.0      |
| 100               | QPSK       | 135     | 138       |                       | 12.00                    |                        |                     |          |
| 100               | QPSK       | 270     | 0         |                       | 12.18                    |                        | 13.0                | 0.0      |
| 100               | 16QAM      | 1       | 1         |                       | 12.24                    |                        | 13.0                | 0.0      |
| 100               | 64QAM      | 1       | 1         |                       | 11.89                    |                        | 13.0                | 0.0      |
| 100               | 256QAM     | 1       | 1         |                       | 11.84                    |                        | 13.0                | 0.0      |
| Channel           |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3495                  | 3500.01                  | 3505.02                |                     |          |
| 90                | QPSK       | 1       | 1         | 12.14                 | 12.17                    | 12.12                  | 13.0                | 0.0      |
| Channel           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3499.02               | 3500.01                  | 3510                   |                     |          |
| 80                | QPSK       | 1       | 1         | 11.92                 | 12.01                    | 11.94                  | 13.0                | 0.0      |
| Channel           |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3485.01               | 3500.01                  | 3515.01                |                     |          |
| 70                | QPSK       | 1       | 1         | 12.06                 | 12.18                    | 11.86                  | 13.0                | 0.0      |
| Channel           |            |         |           | 632096                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3495                  | 3500.01                  | 3520.02                |                     |          |
| 60                | QPSK       | 1       | 1         | 12.20                 | 11.97                    | 12.03                  | 13.0                | 0.0      |
| Channel           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |
| 50                | QPSK       | 1       | 1         | 12.05                 | 12.03                    | 11.97                  | 13.0                | 0.0      |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40                | QPSK       | 1       | 1         | 11.86                 | 12.20                    | 12.15                  | 13.0                | 0.0      |
| Channel           |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30                | QPSK       | 1       | 1         | 12.17                 | 12.16                    | 12.04                  | 13.0                | 0.0      |
| Channel           |            |         |           | 630334                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3462.51               | 3499.98                  | 3537.49                |                     |          |
| 25                | QPSK       | 1       | 1         | 11.91                 | 12.00                    | 12.11                  | 13.0                | 0.0      |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20                | QPSK       | 1       | 1         | 12.13                 | 11.99                    | 12.14                  | 13.0                | 0.0      |
| Channel           |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15                | QPSK       | 1       | 1         | 12.07                 | 11.96                    | 12.12                  | 13.0                | 0.0      |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10                | PI2 BPSK   | 1       | 1         | 12.05                 | 12.15                    | 12.20                  | 13.0                | 0.0      |

| Part27O_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 1         |                       | 11.70                    |                        |                     |          |
| 100               | PI2 BPSK   | 1       | 137       |                       | 11.60                    |                        | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 1       | 271       |                       | 11.64                    |                        |                     |          |
| 100               | PI2 BPSK   | 135     | 0         |                       | 11.70                    |                        | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 69        |                       | 11.71                    |                        | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 135     | 138       |                       | 11.44                    |                        | 13.0                | 0.0      |
| 100               | PI2 BPSK   | 270     | 0         |                       | 11.60                    |                        |                     |          |
| 100               | QPSK       | 1       | 1         |                       | 11.63                    |                        |                     |          |
| 100               | QPSK       | 1       | 137       |                       | 11.75                    |                        | 13.0                | 0.0      |
| 100               | QPSK       | 1       | 271       |                       | 11.69                    |                        |                     |          |
| 100               | QPSK       | 135     | 0         |                       | 11.60                    |                        |                     |          |
| 100               | QPSK       | 135     | 69        |                       | 11.78                    |                        | 13.0                | 0.0      |
| 100               | QPSK       | 135     | 138       |                       | 11.60                    |                        |                     |          |
| 100               | QPSK       | 270     | 0         |                       | 11.75                    |                        | 13.0                | 0.0      |
| 100               | 16QAM      | 1       | 1         |                       | 11.70                    |                        | 13.0                | 0.0      |
| 100               | 64QAM      | 1       | 1         |                       | 11.74                    |                        | 13.0                | 0.0      |
| 100               | 256QAM     | 1       | 1         |                       | 11.80                    |                        | 13.0                | 0.0      |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |
| 90                | QPSK       | 1       | 1         | 11.82                 | 11.71                    | 11.81                  | 13.0                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 650668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3749.99                |                     |          |
| 80                | QPSK       | 1       | 1         | 11.73                 | 11.58                    | 11.71                  | 13.0                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |
| 70                | QPSK       | 1       | 1         | 11.81                 | 11.77                    | 11.83                  | 13.0                | 0.0      |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |
| 60                | QPSK       | 1       | 1         | 11.81                 | 11.49                    | 11.71                  | 13.0                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |
| 50                | QPSK       | 1       | 1         | 11.69                 | 11.43                    | 11.79                  | 13.0                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3760                   |                     |          |
| 40                | QPSK       | 1       | 1         | 11.65                 | 11.48                    | 11.80                  | 13.0                | 0.0      |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |
| 30                | QPSK       | 1       | 1         | 11.74                 | 11.50                    | 11.77                  | 13.0                | 0.0      |
| Channel           |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3712.5                | 3750                     | 3787.5                 |                     |          |
| 25                | QPSK       | 1       | 1         | 11.61                 | 11.51                    | 11.80                  | 13.0                | 0.0      |
| Channel           |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |
| 20                | QPSK       | 1       | 1         | 11.69                 | 11.57                    | 11.71                  | 13.0                | 0.0      |
| Channel           |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |
| 15                | QPSK       | 1       | 1         | 11.62                 | 11.75                    | 11.53                  | 13.0                | 0.0      |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |
| 10                | PI2 BPSK   | 1       | 1         | 11.57                 | 11.63                    | 11.80                  | 13.0                | 0.0      |

| Part27Q_n77_Ant 9 |            |         |           |                          |                             |                           |                        |             |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel           |            |         |           | 633332                   |                             |                           |                        |             |
| Frequency (MHz)   |            |         |           | 3499.98                  |                             |                           |                        |             |
| 100               | PI2 BPSK   | 1       | 1         |                          | 13.93                       |                           | 15.0                   | 0.0         |
| 100               | PI2 BPSK   | 1       | 137       |                          | 13.88                       |                           |                        |             |
| 100               | PI2 BPSK   | 1       | 271       |                          | 13.79                       |                           |                        |             |
| 100               | PI2 BPSK   | 135     | 0         |                          | 13.93                       |                           |                        |             |
| 100               | PI2 BPSK   | 135     | 69        |                          | 13.91                       |                           | 15.0                   | 0.0         |
| 100               | PI2 BPSK   | 135     | 138       |                          | 13.86                       |                           | 15.0                   | 0.0         |
| 100               | PI2 BPSK   | 270     | 0         |                          | 13.88                       |                           |                        |             |
| 100               | QPSK       | 1       | 1         |                          | 14.02                       |                           | 15.0                   | 0.0         |
| 100               | QPSK       | 1       | 137       |                          | 13.90                       |                           |                        |             |
| 100               | QPSK       | 1       | 271       |                          | 13.81                       |                           |                        |             |
| 100               | QPSK       | 135     | 0         |                          | 14.01                       |                           |                        |             |
| 100               | QPSK       | 135     | 69        |                          | 13.85                       |                           | 15.0                   | 0.0         |
| 100               | QPSK       | 135     | 138       |                          | 13.84                       |                           |                        |             |
| 100               | QPSK       | 270     | 0         |                          | 13.97                       |                           | 15.0                   | 0.0         |
| 100               | 16QAM      | 1       | 1         |                          | 13.81                       |                           | 15.0                   | 0.0         |
| 100               | 64QAM      | 1       | 1         |                          | 13.92                       |                           | 15.0                   | 0.0         |
| 100               | 256QAM     | 1       | 1         |                          | 13.95                       |                           | 15.0                   | 0.0         |
| Channel           |            |         |           | 633000                   | 633332                      | 633668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3495                     | 3499.98                     | 3504.99                   |                        |             |
| 90                | QPSK       | 1       | 1         | 13.88                    | 14.01                       | 13.95                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 632668                   | 633332                      | 634000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3490.02                  | 3499.98                     | 3510                      |                        |             |
| 80                | QPSK       | 1       | 1         | 13.85                    | 13.88                       | 13.85                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 632334                   | 633332                      | 634332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3485.01                  | 3499.98                     | 3514.98                   |                        |             |
| 70                | QPSK       | 1       | 1         | 13.87                    | 14.00                       | 13.95                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 632000                   | 633332                      | 634668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3480                     | 3499.98                     | 3519.99                   |                        |             |
| 60                | QPSK       | 1       | 1         | 13.70                    | 13.88                       | 13.83                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 631668                   | 633332                      | 635000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3475.02                  | 3499.98                     | 3525                      |                        |             |
| 50                | QPSK       | 1       | 1         | 13.75                    | 13.93                       | 13.89                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 631334                   | 633332                      | 635332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3470.01                  | 3499.98                     | 3529.98                   |                        |             |
| 40                | QPSK       | 1       | 1         | 13.82                    | 13.91                       | 13.82                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 631000                   | 633332                      | 635668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3465                     | 3499.98                     | 3534.99                   |                        |             |
| 30                | QPSK       | 1       | 1         | 13.81                    | 14.00                       | 13.91                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 630834                   | 633332                      | 635832                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3462.31                  | 3499.98                     | 3537.48                   |                        |             |
| 25                | QPSK       | 1       | 1         | 13.88                    | 13.92                       | 13.84                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 630668                   | 633332                      | 636000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3460.02                  | 3499.98                     | 3540                      |                        |             |
| 20                | QPSK       | 1       | 1         | 13.71                    | 13.89                       | 13.92                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 630500                   | 633332                      | 636168                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3457.5                   | 3499.98                     | 3542.49                   |                        |             |
| 15                | QPSK       | 1       | 1         | 13.83                    | 13.97                       | 13.92                     | 15.0                   | 0.0         |
| Channel           |            |         |           | 630334                   | 633332                      | 636332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz)   |            |         |           | 3455.01                  | 3499.98                     | 3544.98                   |                        |             |
| 10                | PI2 BPSK   | 1       | 1         | 13.72                    | 13.98                       | 13.82                     | 15.0                   | 0.0         |



| Part27Q_n77(HPUE)_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332                |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           | 3459.98               |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 17.08                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       | 16.98                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 1       | 271       | 16.85                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         | 16.99                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        | 16.95                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       | 16.94                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         | 16.97                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         | 17.13                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 17.00                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       | 16.86                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 16.94                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 17.10                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                       |                          |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 17.06                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | 16QAM      | 1       | 1         | 16.95                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         | 16.98                 |                          |                        | 18.0                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         | 17.08                 |                          |                        | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3469.98                  | 3504.99                |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 16.97                 | 16.89                    | 17.03                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3469.98                  | 3510                   |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 16.95                 | 16.88                    | 16.95                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3469.98                  | 3514.98                |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 16.97                 | 16.77                    | 16.90                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460                  | 3469.98                  | 3519.99                |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 16.90                 | 16.82                    | 16.95                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 631666                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3469.98                  | 3525                   |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 16.89                 | 16.82                    | 16.95                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3469.98                  | 3529.98                |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 16.83                 | 16.85                    | 16.90                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3469.98                  | 3534.99                |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 16.94                 | 16.80                    | 16.91                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3462.51               | 3469.98                  | 3537.48                |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 16.86                 | 16.84                    | 16.93                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 630666                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3469.98                  | 3540                   |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 16.91                 | 16.83                    | 16.96                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3469.98                  | 3542.49                |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 16.90                 | 16.88                    | 16.93                  | 18.0                | 0.0      |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3469.98                  | 3544.98                |                     |          |  |
| 10                      | PI2 BPSK   | 1       | 1         | 16.82                 | 16.89                    | 16.91                  | 18.0                | 0.0      |  |

| Part27O_n77_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 13.43                 | 13.60                    | 13.43                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       | 13.67                 | 13.73                    | 13.72                  | 15.0                | 0.0      |  |
| 100               | PI2 BPSK   | 1       | 271       | 13.66                 | 13.70                    | 13.67                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 13.57                 | 13.61                    | 13.49                  | 15.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 13.65                 | 13.65                    | 13.58                  | 15.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 13.58                 | 13.58                    | 13.48                  |                     |          |  |
| 100               | PI2 BPSK   | 270     | 0         | 13.57                 | 13.64                    | 13.63                  |                     |          |  |
| 100               | QPSK       | 1       | 1         | 13.85                 | 13.69                    | 13.75                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 13.82                 | 13.67                    | 13.65                  | 15.0                | 0.0      |  |
| 100               | QPSK       | 1       | 271       | 13.82                 | 13.70                    | 13.65                  |                     |          |  |
| 100               | QPSK       | 135     | 0         | 13.55                 | 13.57                    | 13.53                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 13.76                 | 13.86                    | 13.69                  | 15.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       | 13.55                 | 13.60                    | 13.54                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 13.81                 | 13.83                    | 13.78                  | 15.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 13.69                 | 13.70                    | 13.61                  | 15.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 13.51                 | 13.56                    | 13.54                  | 15.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 13.44                 | 13.50                    | 13.47                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 646666                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 13.88                 | 13.67                    | 13.71                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 646334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3938.99                |                     |          |  |
| 80                | QPSK       | 1       | 1         | 13.80                 | 13.63                    | 13.62                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 646000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |  |
| 70                | QPSK       | 1       | 1         | 13.84                 | 13.75                    | 13.70                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 645666                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3948.98                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 13.80                 | 13.68                    | 13.65                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |  |
| 50                | QPSK       | 1       | 1         | 13.78                 | 13.64                    | 13.64                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  |
| 40                | QPSK       | 1       | 1         | 13.87                 | 13.72                    | 13.62                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 647666                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 13.88                 | 13.63                    | 13.74                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 656000                   | 664500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 25                | QPSK       | 1       | 1         | 13.82                 | 13.65                    | 13.68                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  |
| 20                | QPSK       | 1       | 1         | 13.84                 | 13.71                    | 13.74                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 13.84                 | 13.72                    | 13.69                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |  |
| 10                | PI2 BPSK   | 1       | 1         | 13.85                 | 13.63                    | 13.66                  | 15.0                | 0.0      |  |

| Part27O_n77(HPUE)_Ant 9 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel                 |            |         |           | 650000                | 656000                   | 662000                 |                     |          |     |
| Frequency (MHz)         |            |         |           | 37500                 | 38400                    | 39300                  |                     |          |     |
| 100                     | PI2 BPSK   | 1       | 1         | 16.58                 | 16.53                    | 16.50                  |                     |          |     |
| 100                     | PI2 BPSK   | 1       | 137       | 16.67                 | 16.63                    | 16.65                  | 18.0                |          | 0.0 |
| 100                     | PI2 BPSK   | 1       | 271       | 16.72                 | 16.71                    | 16.63                  |                     |          |     |
| 100                     | PI2 BPSK   | 135     | 0         | 16.56                 | 16.56                    | 16.47                  | 18.0                |          | 0.0 |
| 100                     | PI2 BPSK   | 135     | 69        | 16.66                 | 16.65                    | 16.61                  | 18.0                |          | 0.0 |
| 100                     | PI2 BPSK   | 135     | 138       | 16.58                 | 16.46                    | 16.53                  | 18.0                |          | 0.0 |
| 100                     | PI2 BPSK   | 270     | 0         | 16.62                 | 16.60                    | 16.59                  | 18.0                |          | 0.0 |
| 100                     | QPSK       | 1       | 1         | 16.74                 | 16.59                    | 16.72                  |                     |          |     |
| 100                     | QPSK       | 1       | 137       | 16.72                 | 16.68                    | 16.68                  | 18.0                |          | 0.0 |
| 100                     | QPSK       | 1       | 271       | 16.68                 | 16.85                    | 16.70                  |                     |          |     |
| 100                     | QPSK       | 135     | 0         | 16.60                 | 16.81                    | 16.66                  |                     |          |     |
| 100                     | QPSK       | 135     | 69        | 16.62                 | 16.94                    | 16.82                  | 18.0                |          | 0.0 |
| 100                     | QPSK       | 135     | 138       | 16.56                 | 16.52                    | 16.53                  |                     |          |     |
| 100                     | QPSK       | 270     | 0         | 16.64                 | 16.82                    | 16.81                  | 18.0                |          | 0.0 |
| 100                     | 16QAM      | 1       | 1         | 16.60                 | 16.51                    | 16.54                  | 18.0                |          | 0.0 |
| 100                     | 64QAM      | 1       | 1         | 16.34                 | 16.34                    | 16.25                  | 18.0                |          | 0.0 |
| 100                     | 256QAM     | 1       | 1         | 16.32                 | 16.28                    | 16.19                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 646666                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3745.02               | 38400                    | 3934.98                |                     |          |     |
| 90                      | QPSK       | 1       | 1         | 16.97                 | 16.66                    | 16.61                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 646334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3740.01               | 38400                    | 3938.99                |                     |          |     |
| 80                      | QPSK       | 1       | 1         | 16.89                 | 16.65                    | 16.71                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 646000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 37350                 | 38400                    | 39450                  |                     |          |     |
| 70                      | QPSK       | 1       | 1         | 16.92                 | 16.74                    | 16.70                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 645666                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3730.02               | 38400                    | 3949.98                |                     |          |     |
| 60                      | QPSK       | 1       | 1         | 16.96                 | 16.62                    | 16.66                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 645334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3725.01               | 38400                    | 3954.99                |                     |          |     |
| 50                      | QPSK       | 1       | 1         | 16.95                 | 16.74                    | 16.59                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 645000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3720.00               | 38400                    | 3959.99                |                     |          |     |
| 40                      | QPSK       | 1       | 1         | 16.98                 | 16.63                    | 16.62                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 644666                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3715.02               | 38400                    | 3964.98                |                     |          |     |
| 30                      | QPSK       | 1       | 1         | 16.82                 | 16.69                    | 16.67                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 644000                | 656000                   | 664500                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3710.03               | 38400                    | 3969.95                |                     |          |     |
| 25                      | QPSK       | 1       | 1         | 16.93                 | 16.71                    | 16.52                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 643334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3710.01               | 38400                    | 3969.99                |                     |          |     |
| 20                      | QPSK       | 1       | 1         | 16.68                 | 16.69                    | 16.67                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 641666                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 3710.02               | 38400                    | 3972.48                |                     |          |     |
| 15                      | QPSK       | 1       | 1         | 16.48                 | 16.71                    | 16.60                  | 18.0                |          | 0.0 |
| Channel                 |            |         |           | 640000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)         |            |         |           | 37050                 | 38400                    | 39750                  |                     |          |     |
| 10                      | PI2 BPSK   | 1       | 1         | 16.87                 | 16.68                    | 16.68                  | 18.0                |          | 0.0 |



| Part27Q_n78_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |  |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100               | PI/2 BPSK  | 1       | 1         |                       | 13.62                    |                        | 15.0                | 0.0      |  |
| 100               | PI/2 BPSK  | 1       | 137       |                       | 13.70                    |                        |                     |          |  |
| 100               | PI/2 BPSK  | 1       | 271       |                       | 13.71                    |                        |                     |          |  |
| 100               | PI/2 BPSK  | 135     | 0         |                       | 13.83                    |                        | 15.0                | 0.0      |  |
| 100               | PI/2 BPSK  | 135     | 69        |                       | 13.79                    |                        | 15.0                | 0.0      |  |
| 100               | PI/2 BPSK  | 135     | 138       |                       | 13.83                    |                        | 15.0                | 0.0      |  |
| 100               | PI/2 BPSK  | 270     | 0         |                       | 13.79                    |                        | 15.0                | 0.0      |  |
| 100               | QPSK       | 1       | 1         |                       | 13.88                    |                        | 15.0                | 0.0      |  |
| 100               | QPSK       | 1       | 137       |                       | 13.79                    |                        |                     |          |  |
| 100               | QPSK       | 1       | 271       |                       | 13.78                    |                        |                     |          |  |
| 100               | QPSK       | 135     | 0         |                       | 13.86                    |                        | 15.0                | 0.0      |  |
| 100               | QPSK       | 135     | 69        |                       | 13.75                    |                        | 15.0                | 0.0      |  |
| 100               | QPSK       | 135     | 138       |                       | 13.69                    |                        | 15.0                | 0.0      |  |
| 100               | QPSK       | 270     | 0         |                       | 13.84                    |                        | 15.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         |                       | 13.52                    |                        | 15.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         |                       | 13.81                    |                        | 15.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         |                       | 13.83                    |                        | 15.0                | 0.0      |  |
| Channel           |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3495                  | 3500.01                  | 3505.02                |                     |          |  |
| 90                | QPSK       | 1       | 1         | 13.79                 | 13.64                    | 13.75                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |  |
| 80                | QPSK       | 1       | 1         | 13.52                 | 13.42                    | 13.60                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3485.01               | 3500.01                  | 3515.01                |                     |          |  |
| 70                | QPSK       | 1       | 1         | 13.58                 | 13.49                    | 13.60                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |  |
| 60                | QPSK       | 1       | 1         | 13.84                 | 13.70                    | 13.47                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |  |
| 50                | QPSK       | 1       | 1         | 13.62                 | 13.62                    | 13.78                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 631334                | 633332                   | 633332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |  |
| 40                | QPSK       | 1       | 1         | 13.70                 | 13.36                    | 13.47                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |  |
| 30                | QPSK       | 1       | 1         | 13.84                 | 13.58                    | 13.64                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 630668                | 633332                   | 635968                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |  |
| 25                | QPSK       | 1       | 1         | 13.88                 | 13.69                    | 13.55                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |  |
| 20                | QPSK       | 1       | 1         | 13.76                 | 13.39                    | 13.58                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |  |
| 15                | QPSK       | 1       | 1         | 13.72                 | 13.70                    | 13.80                  | 15.0                | 0.0      |  |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |  |
| 10                | PI/2 BPSK  | 1       | 1         | 13.67                 | 13.58                    | 13.72                  | 15.0                | 0.0      |  |

| Part27O_n78_Ant 9 |            |         |           |                             |                                |                              |                        |             |  |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel           |            |         |           | 650000                      |                                |                              |                        |             |  |
| Frequency (MHz)   |            |         |           | 3750                        |                                |                              |                        |             |  |
| 100               | PI/2 BPSK  | 1       | 1         | 13.33                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | PI/2 BPSK  | 1       | 137       | 13.46                       |                                |                              |                        |             |  |
| 100               | PI/2 BPSK  | 1       | 271       | 13.57                       |                                |                              |                        |             |  |
| 100               | PI/2 BPSK  | 135     | 0         | 13.49                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | PI/2 BPSK  | 135     | 69        | 13.44                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | PI/2 BPSK  | 135     | 138       | 13.47                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | PI/2 BPSK  | 270     | 0         | 13.42                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | QPSK       | 1       | 1         | 13.77                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | QPSK       | 1       | 137       | 13.49                       |                                |                              |                        |             |  |
| 100               | QPSK       | 1       | 271       | 13.50                       |                                |                              |                        |             |  |
| 100               | QPSK       | 135     | 0         | 13.45                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | QPSK       | 135     | 69        | 13.75                       |                                |                              |                        |             |  |
| 100               | QPSK       | 135     | 138       | 13.46                       |                                |                              |                        |             |  |
| 100               | QPSK       | 270     | 0         | 13.71                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | 16QAM      | 1       | 1         | 13.61                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | 64QAM      | 1       | 1         | 13.52                       |                                |                              | 15.0                   | 0.0         |  |
| 100               | 256QAM     | 1       | 1         | 13.13                       |                                |                              | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 648668                      | 650000                         | 650332                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3745.02                     | 3750                           | 3754.98                      | (dBm)                  | (dB)        |  |
| 90                | QPSK       | 1       | 1         | 13.74                       | 13.67                          | 13.64                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 648334                      | 650000                         | 650668                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3740.01                     | 3750                           | 3759.99                      | (dBm)                  | (dB)        |  |
| 80                | QPSK       | 1       | 1         | 13.48                       | 13.67                          | 13.55                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 648000                      | 650000                         | 651000                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3735                        | 3750                           | 3765                         | (dBm)                  | (dB)        |  |
| 70                | QPSK       | 1       | 1         | 13.67                       | 13.66                          | 13.63                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 648668                      | 650000                         | 651332                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3730.02                     | 3750                           | 3769.98                      | (dBm)                  | (dB)        |  |
| 60                | QPSK       | 1       | 1         | 13.65                       | 13.51                          | 13.63                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 648334                      | 650000                         | 651668                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3725.01                     | 3750                           | 3774.99                      | (dBm)                  | (dB)        |  |
| 50                | QPSK       | 1       | 1         | 13.49                       | 13.53                          | 13.45                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 648000                      | 650000                         | 652000                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3720                        | 3750                           | 3780                         | (dBm)                  | (dB)        |  |
| 40                | QPSK       | 1       | 1         | 13.81                       | 13.58                          | 13.85                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 647668                      | 650000                         | 652332                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3715.02                     | 3750                           | 3784.98                      | (dBm)                  | (dB)        |  |
| 30                | QPSK       | 1       | 1         | 13.50                       | 13.56                          | 13.72                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 647500                      | 650000                         | 652500                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3712.5                      | 3750                           | 3787.5                       | (dBm)                  | (dB)        |  |
| 25                | QPSK       | 1       | 1         | 13.72                       | 13.56                          | 13.52                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 647334                      | 650000                         | 652668                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3710.01                     | 3750                           | 3789.99                      | (dBm)                  | (dB)        |  |
| 20                | QPSK       | 1       | 1         | 13.74                       | 13.51                          | 13.56                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 647168                      | 650000                         | 652832                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3707.52                     | 3750                           | 3792.48                      | (dBm)                  | (dB)        |  |
| 15                | QPSK       | 1       | 1         | 13.59                       | 13.43                          | 13.70                        | 15.0                   | 0.0         |  |
| Channel           |            |         |           | 647000                      | 650000                         | 653000                       | Tune-up limit          | MPR         |  |
| Frequency (MHz)   |            |         |           | 3705                        | 3750                           | 3795                         | (dBm)                  | (dB)        |  |
| 10                | PI/2 BPSK  | 1       | 1         | 13.57                       | 13.58                          | 13.39                        | 15.0                   | 0.0         |  |



Reduced Power Mode for DS16

| n2_Ant 1        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 20.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 1         | 18.85                 | 18.85                    | 18.82                  |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 53        | 19.05                 | 19.02                    | 18.92                  | 20.0                | 0.0      |  |
| 20              | PI/2 BPSK  | 1       | 104       | 18.81                 | 18.97                    | 18.98                  |                     |          |  |
| 20              | PI/2 BPSK  | 50      | 0         | 19.07                 | 19.08                    | 18.80                  |                     |          |  |
| 20              | PI/2 BPSK  | 50      | 28        | 18.83                 | 19.08                    | 18.90                  | 20.0                | 0.0      |  |
| 20              | PI/2 BPSK  | 50      | 56        | 18.81                 | 19.05                    | 18.84                  |                     |          |  |
| 20              | PI/2 BPSK  | 100     | 0         | 18.98                 | 19.09                    | 18.93                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 18.12                 | 18.21                    | 18.10                  | 20.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 18.85                 | 18.95                    | 18.58                  |                     |          |  |
| 20              | QPSK       | 1       | 104       | 18.72                 | 18.98                    | 18.83                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 18.92                 | 19.12                    | 18.88                  | 20.0                | 0.0      |  |
| 20              | QPSK       | 50      | 28        | 18.10                 | 18.19                    | 18.05                  |                     |          |  |
| 20              | QPSK       | 50      | 56        | 18.84                 | 19.02                    | 18.79                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 18.83                 | 19.17                    | 19.00                  | 20.0                | 0.0      |  |
| 20              | 16QAM      | 1       | 1         | 18.83                 | 18.98                    | 18.83                  |                     |          |  |
| 20              | 64QAM      | 1       | 1         | 18.86                 | 18.81                    | 18.88                  |                     |          |  |
| 20              | 256QAM     | 1       | 1         | 18.58                 | 18.67                    | 18.68                  | 19.5                | 0.5      |  |
| Channel         |            |         |           | 371000                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 18.90                 | 19.19                    | 19.03                  |                     | 0.0      |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 19.12                 | 19.09                    | 19.03                  |                     | 0.0      |  |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1822.5                | 1880                     | 1907.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 19.01                 | 19.01                    | 19.02                  |                     | 0.0      |  |

| n2_Ant 2        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 1         | 23.20                 | 23.25                    | 23.31                  |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 53        | 23.28                 | 23.37                    | 23.27                  | 24.0                | 0.5      |  |
| 20              | PI/2 BPSK  | 1       | 104       | 23.34                 | 23.42                    | 23.10                  |                     |          |  |
| 20              | PI/2 BPSK  | 50      | 0         | 22.64                 | 22.83                    | 22.67                  |                     |          |  |
| 20              | PI/2 BPSK  | 50      | 28        | 23.08                 | 23.38                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | PI/2 BPSK  | 50      | 56        | 22.83                 | 22.83                    | 22.80                  |                     |          |  |
| 20              | PI/2 BPSK  | 100     | 0         | 22.81                 | 22.87                    | 22.85                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.28                 | 23.45                    | 23.27                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 23.15                 | 23.42                    | 23.24                  |                     |          |  |
| 20              | QPSK       | 1       | 104       | 23.22                 | 23.41                    | 23.13                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.10                 | 22.33                    | 22.51                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 50      | 28        | 23.31                 | 23.41                    | 23.34                  |                     |          |  |
| 20              | QPSK       | 50      | 56        | 22.16                 | 22.33                    | 22.10                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 22.08                 | 22.36                    | 22.16                  | 23.0                | 1.0      |  |
| 20              | 16QAM      | 1       | 1         | 22.03                 | 22.29                    | 22.53                  |                     |          |  |
| 20              | 64QAM      | 1       | 1         | 20.59                 | 20.63                    | 20.74                  |                     | 21.5     |  |
| 20              | 256QAM     | 1       | 1         | 18.55                 | 18.83                    | 19.02                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 371000                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                 |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.80                 | 23.39                    | 23.30                  |                     | 24.0     |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.79                 | 23.26                    | 23.10                  |                     | 24.0     |  |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.17                 | 23.35                    | 23.01                  |                     | 24.0     |  |

| n5_Ant 0        |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 166800                | 167300                   | 167800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 1         | 23.17                 | 23.09                    | 23.14                  |                     |          |  |
| 20              | PI/2 BPSK  | 1       | 53        | 23.17                 | 23.12                    | 23.16                  | 23.5                | 0.5      |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.67                 | 22.68                    | 22.32                  |                     |          |  |
| 20              | PI/2 BPSK  | 50      | 0         | 22.58                 | 22.67                    | 22.82                  |                     |          |  |
| 20              | PI/2 BPSK  | 50      | 28        | 22.58                 | 22.57                    | 22.85                  | 23.5                | 0.5      |  |
| 20              | PI/2 BPSK  | 50      | 56        | 22.83                 | 22.48                    | 22.45                  |                     |          |  |
| 20              | PI/2 BPSK  | 100     | 0         | 22.71                 | 22.83                    | 22.61                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.18                    | 23.16                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 53        | 23.08                 | 23.07                    | 23.12                  |                     |          |  |
| 20              | QPSK       | 1       | 104       | 22.19                 | 22.20                    | 22.28                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.88                 | 22.11                    | 22.18                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 50      | 28        | 22.18                 | 22.15                    | 22.14                  |                     |          |  |
| 20              | QPSK       | 50      | 56        | 22.08                 | 21.93                    | 21.98                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 22.14                 | 22.20                    | 22.18                  | 23.0                | 1.0      |  |
| 20              | 16QAM      | 1       | 1         | 22.28                 | 22.28                    | 22.09                  |                     |          |  |
| 20              | 64QAM      | 1       | 1         | 20.90                 | 20.67                    | 20.71                  |                     | 21.5     |  |
| 20              | 256QAM     | 1       | 1         | 18.41                 | 18.48                    | 18.40                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 166300                | 167280                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.14                 | 23.11                    | 22.94                  |                     | 24.0     |  |
| Channel         |            |         |           | 166800                | 167300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.14                 | 23.09                    | 23.00                  |                     | 24.0     |  |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 826.5                 | 830.5                    | 845.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.09                 | 23.06                    | 23.00                  |                     | 24.0     |  |



n5\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 166800                | 167300                   | 167800                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 23.10                 | 23.09                    | 23.08                  |                     |          |
| 20              | PI2 BPSK   | 1       | 53        | 23.05                 | 23.05                    | 23.14                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 104       | 23.07                 | 23.10                    | 22.27                  |                     |          |
| 20              | PI2 BPSK   | 50      | 0         | 22.53                 | 22.62                    | 22.55                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 28        | 23.05                 | 23.01                    | 23.14                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 22.58                 | 22.63                    | 22.40                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 100     | 0         | 22.81                 | 22.79                    | 22.77                  | 23.5                | 0.5      |
| 20              | QPSK       | 1       | 1         | 23.04                 | 23.15                    | 23.05                  |                     |          |
| 20              | QPSK       | 1       | 53        | 22.99                 | 23.06                    | 23.01                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 104       | 22.98                 | 22.62                    | 22.61                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.13                 | 22.11                    | 22.11                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 28        | 22.62                 | 23.07                    | 22.57                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 21.99                 | 21.97                    | 21.90                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.00                 | 22.04                    | 22.03                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 22.13                 | 22.10                    | 22.08                  | 23.0                | 1.0      |
| 20              | 64QAM      | 1       | 1         | 20.45                 | 20.47                    | 20.45                  | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.59                 | 18.62                    | 18.60                  | 19.5                | 4.5      |
| Channel         |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  |                     |          |
| 15              | QPSK       | 1       | 1         | 22.92                 | 23.08                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 166800                | 167300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |          |
| 10              | QPSK       | 1       | 1         | 22.88                 | 23.11                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 825.5                 | 836.5                    | 846.5                  |                     |          |
| 5               | QPSK       | 1       | 1         | 23.03                 | 22.97                    | 22.90                  | 24.0                | 0.0      |

n7\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 504000                | 507000                   | 510000                 | 19.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2520                  | 2535                     | 2550                   |                     |          |
| 40              | PI2 BPSK   | 1       | 1         | 17.67                 | 17.90                    | 17.84                  |                     |          |
| 40              | PI2 BPSK   | 1       | 108       | 17.85                 | 18.01                    | 17.85                  | 19.0                | 0.0      |
| 40              | PI2 BPSK   | 1       | 214       | 17.79                 | 17.90                    | 17.84                  |                     |          |
| 40              | PI2 BPSK   | 108     | 0         | 17.69                 | 17.95                    | 17.94                  | 19.0                | 0.0      |
| 40              | PI2 BPSK   | 108     | 54        | 17.80                 | 17.98                    | 17.75                  | 19.0                | 0.0      |
| 40              | PI2 BPSK   | 108     | 108       | 17.84                 | 17.91                    | 17.77                  | 19.0                | 0.0      |
| 40              | PI2 BPSK   | 216     | 0         | 17.87                 | 17.92                    | 17.83                  | 19.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 17.96                 | 18.08                    | 17.99                  |                     |          |
| 40              | QPSK       | 1       | 108       | 17.78                 | 17.92                    | 17.81                  | 19.0                | 0.0      |
| 40              | QPSK       | 1       | 214       | 17.69                 | 17.85                    | 17.72                  |                     |          |
| 40              | QPSK       | 108     | 0         | 17.84                 | 17.90                    | 17.79                  | 19.0                | 0.0      |
| 40              | QPSK       | 108     | 54        | 17.93                 | 18.06                    | 17.95                  | 19.0                | 0.0      |
| 40              | QPSK       | 108     | 108       | 17.75                 | 17.93                    | 17.79                  | 19.0                | 0.0      |
| 40              | QPSK       | 216     | 0         | 17.84                 | 18.05                    | 17.84                  | 19.0                | 0.0      |
| 40              | 16QAM      | 1       | 1         | 17.72                 | 17.87                    | 17.80                  | 19.0                | 0.0      |
| 40              | 64QAM      | 1       | 1         | 17.63                 | 17.81                    | 17.72                  | 19.0                | 0.0      |
| 40              | 256QAM     | 1       | 1         | 17.73                 | 17.89                    | 17.72                  | 19.0                | 0.0      |
| Channel         |            |         |           | 503000                | 507000                   | 511000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2515                  | 2535                     | 2555                   |                     |          |
| 30              | QPSK       | 1       | 1         | 17.84                 | 17.83                    | 17.86                  | 19.0                | 0.0      |
| Channel         |            |         |           | 502500                | 507000                   | 511500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2512.5                | 2535                     | 2557.5                 |                     |          |
| 25              | QPSK       | 1       | 1         | 17.69                 | 17.66                    | 17.81                  | 19.0                | 0.0      |
| Channel         |            |         |           | 502000                | 507000                   | 512000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |
| 20              | QPSK       | 1       | 1         | 17.60                 | 17.89                    | 17.68                  | 19.0                | 0.0      |
| Channel         |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 17.80                 | 17.64                    | 17.66                  | 19.0                | 0.0      |
| Channel         |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |
| 10              | QPSK       | 1       | 1         | 17.81                 | 17.51                    | 17.89                  | 19.0                | 0.0      |
| Channel         |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 17.75                 | 17.67                    | 17.63                  | 19.0                | 0.0      |

n12\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 141300                | 141500                   | 141700                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 706.5                 | 707.5                    | 708.5                  |                     |          |
| 15              | PI2 BPSK   | 1       | 1         | 23.15                 | 23.14                    | 23.16                  |                     |          |
| 15              | PI2 BPSK   | 1       | 40        | 23.11                 | 23.11                    | 23.16                  | 24.0                | 0.0      |
| 15              | PI2 BPSK   | 1       | 77        | 23.17                 | 23.11                    | 23.19                  |                     |          |
| 15              | PI2 BPSK   | 38      | 0         | 22.61                 | 22.72                    | 22.69                  | 23.5                | 0.5      |
| 15              | PI2 BPSK   | 38      | 22        | 23.11                 | 23.17                    | 23.16                  | 24.0                | 0.0      |
| 15              | PI2 BPSK   | 38      | 43        | 22.78                 | 22.78                    | 22.78                  | 23.5                | 0.5      |
| 15              | PI2 BPSK   | 75      | 0         | 22.79                 | 22.72                    | 22.73                  |                     |          |
| 15              | QPSK       | 1       | 1         | 23.16                 | 23.22                    | 23.16                  |                     |          |
| 15              | QPSK       | 1       | 40        | 23.12                 | 23.20                    | 23.17                  | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 77        | 23.15                 | 23.18                    | 23.14                  |                     |          |
| 15              | QPSK       | 38      | 0         | 22.16                 | 22.16                    | 22.16                  | 23.0                | 1.0      |
| 15              | QPSK       | 38      | 22        | 23.13                 | 23.20                    | 23.16                  | 24.0                | 0.0      |
| 15              | QPSK       | 38      | 43        | 22.27                 | 22.11                    | 22.24                  | 23.0                | 1.0      |
| 15              | QPSK       | 75      | 0         | 22.24                 | 22.27                    | 22.26                  |                     |          |
| 15              | 16QAM      | 1       | 1         | 21.67                 | 22.15                    | 22.45                  | 23.0                | 1.0      |
| 15              | 64QAM      | 1       | 1         | 20.68                 | 20.86                    | 21.02                  | 21.5                | 2.5      |
| 15              | 256QAM     | 1       | 1         | 18.29                 | 18.24                    | 18.52                  | 19.5                | 4.5      |
| Channel         |            |         |           | 140800                | 141500                   | 142200                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |          |
| 10              | QPSK       | 1       | 1         | 23.06                 | 23.12                    | 23.02                  | 24.0                | 0.0      |
| Channel         |            |         |           | 140300                | 141500                   | 142700                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |          |
| 5               | QPSK       | 1       | 1         | 23.02                 | 23.16                    | 23.07                  | 24.0                | 0.0      |



n14\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 158600                   |                             |                           | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 793                      |                             |                           |                        |             |
| 10              | PI/2 BPSK  | 1       | 1         | 22.80                    |                             |                           |                        |             |
| 10              | PI/2 BPSK  | 1       | 26        | 22.77                    |                             |                           | 23.5                   | 0.5         |
| 10              | PI/2 BPSK  | 1       | 50        | 22.70                    |                             |                           |                        |             |
| 10              | PI/2 BPSK  | 25      | 0         | 22.20                    |                             |                           |                        |             |
| 10              | PI/2 BPSK  | 25      | 14        | 22.82                    |                             |                           | 23.5                   | 0.5         |
| 10              | PI/2 BPSK  | 25      | 27        | 22.15                    |                             |                           |                        |             |
| 10              | PI/2 BPSK  | 50      | 0         | 22.29                    |                             |                           |                        |             |
| 10              | QPSK       | 1       | 1         | 22.83                    |                             |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 26        | 22.82                    |                             |                           |                        |             |
| 10              | QPSK       | 1       | 50        | 22.64                    |                             |                           |                        |             |
| 10              | QPSK       | 25      | 0         | 21.76                    |                             |                           | 24.0                   | 0.0         |
| 10              | QPSK       | 25      | 14        | 22.81                    |                             |                           |                        |             |
| 10              | QPSK       | 25      | 27        | 21.73                    |                             |                           |                        |             |
| 10              | QPSK       | 50      | 0         | 21.78                    |                             |                           | 23.0                   | 1.0         |
| 10              | 16QAM      | 1       | 1         | 22.13                    |                             |                           |                        |             |
| 10              | 64QAM      | 1       | 1         | 20.62                    |                             |                           |                        |             |
| 10              | 256QAM     | 1       | 1         | 18.06                    |                             |                           | 19.5                   | 4.5         |
| Channel         |            |         |           | 158100                   | 159000                      | 159100                    |                        |             |
| Frequency (MHz) |            |         |           | 780.5                    | 793                         | 795.5                     |                        |             |
| 5               | QPSK       | 1       | 1         | 22.80                    | 22.78                       | 22.67                     | 24.0                   | 0.0         |

n25\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                   | 376500                      | 381000                    | 20.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1860                     | 1882.5                      | 1905                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 19.10                    | 19.09                       | 18.83                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 19.10                    | 19.16                       | 19.09                     | 20.0                   | 0.0         |
| 20              | PI/2 BPSK  | 1       | 104       | 18.97                    | 19.11                       | 19.03                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 19.14                    | 19.21                       | 19.05                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 26        | 19.00                    | 19.12                       | 19.00                     | 20.0                   | 0.0         |
| 20              | PI/2 BPSK  | 50      | 56        | 18.96                    | 19.10                       | 19.01                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 19.06                    | 19.15                       | 19.07                     |                        |             |
| 20              | QPSK       | 1       | 1         | 19.16                    | 19.29                       | 19.11                     | 20.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 18.88                    | 19.05                       | 18.76                     |                        |             |
| 20              | QPSK       | 1       | 104       | 18.89                    | 19.06                       | 18.91                     |                        |             |
| 20              | QPSK       | 50      | 0         | 19.01                    | 19.19                       | 18.99                     | 20.0                   | 0.0         |
| 20              | QPSK       | 50      | 26        | 19.04                    | 19.27                       | 19.07                     |                        |             |
| 20              | QPSK       | 50      | 56        | 18.94                    | 19.13                       | 18.95                     |                        |             |
| 20              | QPSK       | 100     | 0         | 19.11                    | 19.25                       | 19.13                     | 20.0                   | 0.0         |
| 20              | 16QAM      | 1       | 1         | 19.14                    | 19.19                       | 19.05                     |                        |             |
| 20              | 64QAM      | 1       | 1         | 19.01                    | 19.06                       | 18.89                     |                        |             |
| 20              | 256QAM     | 1       | 1         | 18.66                    | 18.83                       | 18.70                     | 19.5                   | 0.5         |
| Channel         |            |         |           | 371500                   | 376500                      | 381000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1857.5                   | 1882.5                      | 1907.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 19.01                    | 19.11                       | 18.98                     |                        |             |
| Channel         |            |         |           | 371000                   | 376500                      | 382000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1855                     | 1882.5                      | 1910                      |                        |             |
| 10              | QPSK       | 1       | 1         | 18.78                    | 18.85                       | 18.81                     |                        |             |
| Channel         |            |         |           | 370500                   | 376500                      | 382500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1852.5                   | 1882.5                      | 1912.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 19.05                    | 19.06                       | 18.81                     | 20.0                   | 0.0         |

n25\_Ant 2

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 372000                   | 376500                      | 381000                    | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 1860                     | 1882.5                      | 1905                      |                        |             |
| 20              | PI/2 BPSK  | 1       | 1         | 23.13                    | 23.28                       | 23.22                     |                        |             |
| 20              | PI/2 BPSK  | 1       | 53        | 23.29                    | 23.33                       | 23.23                     | 23.5                   | 0.5         |
| 20              | PI/2 BPSK  | 1       | 104       | 23.42                    | 23.37                       | 23.19                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 0         | 22.62                    | 22.96                       | 22.81                     |                        |             |
| 20              | PI/2 BPSK  | 50      | 26        | 23.18                    | 23.35                       | 23.31                     | 23.5                   | 0.5         |
| 20              | PI/2 BPSK  | 50      | 56        | 22.75                    | 22.90                       | 22.64                     |                        |             |
| 20              | PI/2 BPSK  | 100     | 0         | 22.71                    | 22.91                       | 22.63                     |                        |             |
| 20              | QPSK       | 1       | 1         | 23.30                    | 23.46                       | 23.30                     | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 53        | 23.23                    | 23.36                       | 23.30                     |                        |             |
| 20              | QPSK       | 1       | 104       | 23.24                    | 23.42                       | 23.19                     |                        |             |
| 20              | QPSK       | 50      | 0         | 22.13                    | 22.45                       | 22.36                     | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 26        | 23.21                    | 23.45                       | 23.30                     |                        |             |
| 20              | QPSK       | 50      | 56        | 22.31                    | 22.36                       | 22.13                     |                        |             |
| 20              | QPSK       | 100     | 0         | 22.16                    | 22.37                       | 22.27                     | 23.0                   | 1.0         |
| 20              | 16QAM      | 1       | 1         | 22.18                    | 22.25                       | 22.40                     |                        |             |
| 20              | 64QAM      | 1       | 1         | 20.58                    | 20.67                       | 20.94                     |                        |             |
| 20              | 256QAM     | 1       | 1         | 18.51                    | 18.75                       | 18.89                     | 19.5                   | 4.5         |
| Channel         |            |         |           | 371500                   | 376500                      | 381000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1857.5                   | 1882.5                      | 1907.5                    |                        |             |
| 15              | QPSK       | 1       | 1         | 23.20                    | 23.31                       | 23.38                     |                        |             |
| Channel         |            |         |           | 371000                   | 376500                      | 382000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1855                     | 1882.5                      | 1910                      |                        |             |
| 10              | QPSK       | 1       | 1         | 23.05                    | 23.37                       | 23.10                     |                        |             |
| Channel         |            |         |           | 370500                   | 376500                      | 382500                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 1852.5                   | 1882.5                      | 1912.5                    |                        |             |
| 5               | QPSK       | 1       | 1         | 23.21                    | 23.27                       | 23.18                     | 24.0                   | 0.0         |



| n26_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 164800                | 166300                   | 167800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                 | 23.07                    | 23.01                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 23.08                 | 23.20                    | 23.14                  | 24.0                | 0.5      |  |
| 20              | PI2 BPSK   | 1       | 104       | 23.14                 | 23.17                    | 23.19                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.62                 | 22.50                    | 22.57                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 28        | 23.09                 | 23.13                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.62                 | 22.79                    | 22.82                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.53                 | 22.58                    | 22.66                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.18                 | 23.21                    | 23.12                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 23.10                 | 23.12                    | 23.07                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 104       | 23.13                 | 23.18                    | 23.10                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.08                 | 22.07                    | 22.10                  |                     |          |  |
| 20              | QPSK       | 50      | 28        | 23.15                 | 23.19                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.27                 | 22.31                    | 22.32                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 100     | 0         | 22.09                 | 22.18                    | 22.15                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 22.16                 | 22.16                    | 22.18                  | 23.0                | 1.0      |  |
| 20              | 64QAM      | 1       | 1         | 20.78                 | 20.75                    | 20.69                  | 21.5                | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 18.23                 | 18.26                    | 18.26                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.17                 | 23.19                    | 23.01                  |                     |          |  |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.14                 | 23.11                    | 22.94                  |                     |          |  |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.15                 | 23.17                    | 23.04                  |                     |          |  |

| n26_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 164800                | 166300                   | 167800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                 | 23.15                    | 23.12                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 23.10                 | 23.12                    | 23.10                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 1       | 104       | 23.16                 | 23.12                    | 23.15                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.38                 | 22.57                    | 22.59                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 28        | 23.07                 | 23.12                    | 23.09                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.70                 | 22.74                    | 22.77                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.51                 | 22.63                    | 22.57                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.17                    | 23.11                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 23.12                 | 23.15                    | 23.06                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 104       | 23.07                 | 23.11                    | 23.08                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.38                 | 22.07                    | 22.03                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 50      | 28        | 23.11                 | 23.14                    | 23.09                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.22                 | 22.27                    | 22.20                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 100     | 0         | 22.02                 | 22.11                    | 22.02                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 21.67                 | 21.79                    | 21.79                  | 23.0                | 1.0      |  |
| 20              | 64QAM      | 1       | 1         | 20.25                 | 20.32                    | 20.26                  | 21.5                | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 18.72                 | 18.73                    | 18.62                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 163800                | 166300                   | 168300                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |  |
| 15              | QPSK       | 1       | 1         | 23.02                 | 23.08                    | 22.86                  |                     |          |  |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.89                 | 23.11                    | 22.84                  |                     |          |  |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.07                 | 22.97                    | 23.14                  |                     |          |  |

| n30_Ant 1       |            |         |           |                       |                          |                        |                     |          |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel         |            |         |           | 462000                |                          |                        | 20.5                | 0.0      |     |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |                     |          |     |
| 10              | PI2 BPSK   | 1       | 1         |                       |                          | 19.08                  |                     |          |     |
| 10              | PI2 BPSK   | 1       | 26        |                       |                          | 19.13                  | 20.5                | 0.0      |     |
| 10              | PI2 BPSK   | 1       | 50        |                       |                          | 19.09                  |                     |          |     |
| 10              | PI2 BPSK   | 25      | 0         |                       |                          | 19.11                  |                     |          |     |
| 10              | PI2 BPSK   | 25      | 14        |                       |                          | 19.14                  | 20.5                | 0.0      |     |
| 10              | PI2 BPSK   | 25      | 27        |                       |                          | 19.13                  |                     |          |     |
| 10              | PI2 BPSK   | 50      | 0         |                       |                          | 19.09                  |                     |          |     |
| 10              | QPSK       | 1       | 1         |                       |                          | 19.20                  | 20.5                | 0.0      |     |
| 10              | QPSK       | 1       | 26        |                       |                          | 19.19                  |                     |          |     |
| 10              | QPSK       | 1       | 50        |                       |                          | 19.17                  |                     |          |     |
| 10              | QPSK       | 25      | 0         |                       |                          | 19.11                  | 20.5                | 0.0      |     |
| 10              | QPSK       | 25      | 14        |                       |                          | 19.16                  |                     |          |     |
| 10              | QPSK       | 25      | 27        |                       |                          | 19.07                  |                     |          |     |
| 10              | QPSK       | 50      | 0         |                       |                          | 19.15                  | 20.5                | 0.0      |     |
| 10              | 16QAM      | 1       | 1         |                       |                          | 19.11                  |                     |          |     |
| 10              | 64QAM      | 1       | 1         |                       |                          | 18.92                  |                     |          |     |
| 10              | 256QAM     | 1       | 1         |                       |                          | 18.78                  | 19.0                |          | 1.5 |
| Channel         |            |         |           | 461000                | 462000                   | 462000                 | 20.5                | 0.0      |     |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 |                     |          |     |
| 5               | QPSK       | 1       | 1         | 19.09                 | 19.01                    | 19.08                  |                     |          |     |



| n30_Ant 2       |            |         |           |                       |                          |                        |      |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |      |
| Channel         |            |         |           | 462000                |                          |                        |      |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |      |
| 10              | PI2 BPSK   | 1       | 1         | 21.96                 |                          |                        |      |
| 10              | PI2 BPSK   | 1       | 26        | 21.95                 |                          |                        | 23.0 |
| 10              | PI2 BPSK   | 1       | 50        | 21.92                 |                          |                        |      |
| 10              | PI2 BPSK   | 25      | 0         | 21.44                 |                          |                        | 22.5 |
| 10              | PI2 BPSK   | 25      | 14        | 21.96                 |                          |                        | 23.0 |
| 10              | PI2 BPSK   | 25      | 27        | 21.42                 |                          |                        |      |
| 10              | PI2 BPSK   | 50      | 0         | 21.44                 |                          |                        | 22.5 |
| 10              | QPSK       | 1       | 1         | 22.00                 |                          |                        |      |
| 10              | QPSK       | 1       | 26        | 21.96                 |                          |                        | 23.0 |
| 10              | QPSK       | 1       | 50        | 21.97                 |                          |                        |      |
| 10              | QPSK       | 25      | 0         | 20.88                 |                          |                        | 22.0 |
| 10              | QPSK       | 25      | 14        | 21.97                 |                          |                        | 23.0 |
| 10              | QPSK       | 25      | 27        | 20.88                 |                          |                        |      |
| 10              | QPSK       | 50      | 0         | 20.93                 |                          |                        | 22.0 |
| 10              | 16QAM      | 1       | 1         | 20.85                 |                          |                        | 22.0 |
| 10              | 64QAM      | 1       | 1         | 19.30                 |                          |                        | 20.5 |
| 10              | 256QAM     | 1       | 1         | 17.37                 |                          |                        | 18.5 |
| Channel         |            |         |           | 461800                | 462000                   | 462000                 |      |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 |      |
| 5               | QPSK       | 1       | 1         | 21.94                 | 21.94                    | 21.89                  | 23.0 |

| n66_Ant 1       |            |         |           |                       |                          |                        |      |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |      |
| Channel         |            |         |           | 346000                | 349000                   | 352000                 |      |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |      |
| 40              | PI2 BPSK   | 1       | 1         | 19.41                 | 19.60                    | 19.45                  |      |
| 40              | PI2 BPSK   | 1       | 108       | 19.67                 | 19.76                    | 19.65                  | 20.5 |
| 40              | PI2 BPSK   | 1       | 214       | 19.48                 | 19.55                    | 19.45                  |      |
| 40              | PI2 BPSK   | 108     | 0         | 19.57                 | 19.67                    | 19.50                  | 20.5 |
| 40              | PI2 BPSK   | 108     | 54        | 19.50                 | 19.66                    | 19.55                  | 20.5 |
| 40              | PI2 BPSK   | 108     | 108       | 19.58                 | 19.69                    | 19.51                  |      |
| 40              | PI2 BPSK   | 216     | 0         | 19.67                 | 19.72                    | 19.65                  | 20.5 |
| 40              | QPSK       | 1       | 1         | 19.70                 | 19.80                    | 19.76                  |      |
| 40              | QPSK       | 1       | 108       | 19.55                 | 19.76                    | 19.60                  | 20.5 |
| 40              | QPSK       | 1       | 214       | 19.44                 | 19.46                    | 19.38                  |      |
| 40              | QPSK       | 108     | 0         | 19.53                 | 19.55                    | 19.54                  | 20.5 |
| 40              | QPSK       | 108     | 54        | 19.64                 | 19.78                    | 19.70                  | 20.5 |
| 40              | QPSK       | 108     | 108       | 19.59                 | 19.69                    | 19.64                  |      |
| 40              | QPSK       | 216     | 0         | 19.63                 | 19.75                    | 19.56                  | 20.5 |
| 40              | 16QAM      | 1       | 1         | 19.19                 | 19.25                    | 19.16                  | 20.5 |
| 40              | 64QAM      | 1       | 1         | 19.44                 | 19.55                    | 19.46                  | 20.5 |
| 40              | 256QAM     | 1       | 1         | 18.61                 | 18.78                    | 18.69                  | 19.5 |
| Channel         |            |         |           | 345500                | 349000                   | 352000                 |      |
| Frequency (MHz) |            |         |           | 1727.5                | 1745                     | 1762.5                 |      |
| 30              | QPSK       | 1       | 1         | 19.23                 | 19.44                    | 19.39                  | 20.5 |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 |      |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |      |
| 25              | QPSK       | 1       | 1         | 19.21                 | 19.18                    | 19.23                  | 20.5 |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 |      |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1747.5                 |      |
| 20              | QPSK       | 1       | 1         | 19.09                 | 19.16                    | 19.28                  | 20.5 |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 |      |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |      |
| 15              | QPSK       | 1       | 1         | 19.09                 | 19.49                    | 19.33                  | 20.5 |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 |      |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |      |
| 10              | QPSK       | 1       | 1         | 19.06                 | 19.16                    | 19.54                  | 20.5 |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 |      |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |      |
| 5               | QPSK       | 1       | 1         | 19.31                 | 19.32                    | 19.19                  | 20.5 |

| n66_Ant 2       |            |         |           |                       |                          |                        |      |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |      |
| Channel         |            |         |           | 346000                | 349000                   | 352000                 |      |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |      |
| 40              | PI2 BPSK   | 1       | 1         | 21.07                 | 21.38                    | 21.38                  |      |
| 40              | PI2 BPSK   | 1       | 108       | 21.17                 | 21.33                    | 21.25                  | 22.5 |
| 40              | PI2 BPSK   | 1       | 214       | 21.23                 | 21.37                    | 21.19                  |      |
| 40              | PI2 BPSK   | 108     | 0         | 21.22                 | 21.36                    | 21.26                  | 22.5 |
| 40              | PI2 BPSK   | 108     | 54        | 21.33                 | 21.41                    | 21.31                  | 22.5 |
| 40              | PI2 BPSK   | 108     | 108       | 21.29                 | 21.45                    | 21.34                  |      |
| 40              | PI2 BPSK   | 216     | 0         | 21.26                 | 21.31                    | 21.20                  | 22.5 |
| 40              | QPSK       | 1       | 1         | 21.43                 | 21.46                    | 21.42                  |      |
| 40              | QPSK       | 1       | 108       | 21.38                 | 21.40                    | 21.11                  | 22.5 |
| 40              | QPSK       | 1       | 214       | 21.07                 | 21.28                    | 21.07                  |      |
| 40              | QPSK       | 108     | 0         | 21.34                 | 21.44                    | 21.22                  | 22.5 |
| 40              | QPSK       | 108     | 54        | 21.35                 | 21.46                    | 21.37                  | 22.5 |
| 40              | QPSK       | 108     | 108       | 21.37                 | 21.44                    | 21.28                  |      |
| 40              | QPSK       | 216     | 0         | 21.23                 | 21.41                    |                        | 22.5 |
| 40              | 16QAM      | 1       | 1         | 21.40                 | 21.47                    | 21.39                  | 22.5 |
| 40              | 64QAM      | 1       | 1         | 21.27                 | 21.45                    | 21.27                  | 21.5 |
| 40              | 256QAM     | 1       | 1         | 18.81                 | 18.97                    | 18.92                  | 19.5 |
| Channel         |            |         |           | 345500                | 349000                   | 352500                 |      |
| Frequency (MHz) |            |         |           | 1727.5                | 1745                     | 1762.5                 |      |
| 30              | QPSK       | 1       | 1         | 21.23                 | 21.45                    | 21.34                  | 22.5 |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 |      |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |      |
| 25              | QPSK       | 1       | 1         | 21.28                 | 21.26                    | 21.38                  | 22.5 |
| Channel         |            |         |           | 344500                | 349000                   | 353500                 |      |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1747.5                 |      |
| 20              | QPSK       | 1       | 1         | 21.09                 | 21.28                    | 21.18                  | 22.5 |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 |      |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |      |
| 15              | QPSK       | 1       | 1         | 21.31                 | 21.32                    | 21.19                  | 22.5 |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 |      |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |      |
| 10              | QPSK       | 1       | 1         | 21.02                 | 21.22                    | 21.06                  | 22.5 |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 |      |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |      |
| 5               | QPSK       | 1       | 1         | 21.16                 | 21.43                    | 21.38                  | 22.5 |



| n70_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 340500                |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |  |
| 15              | PI2 BPSK   | 1       | 1         |                       | 19.53                    |                        | 20.5                | 0.0      |  |
| 15              | PI2 BPSK   | 1       | 40        |                       | 19.58                    |                        |                     |          |  |
| 15              | PI2 BPSK   | 1       | 77        |                       | 19.59                    |                        |                     |          |  |
| 15              | PI2 BPSK   | 36      | 0         |                       | 19.60                    |                        | 20.5                | 0.0      |  |
| 15              | PI2 BPSK   | 36      | 22        |                       | 19.56                    |                        | 20.5                | 0.0      |  |
| 15              | PI2 BPSK   | 36      | 43        |                       | 19.51                    |                        |                     |          |  |
| 15              | PI2 BPSK   | 75      | 0         |                       | 19.55                    |                        | 20.5                | 0.0      |  |
| 15              | QPSK       | 1       | 1         |                       | 19.62                    |                        |                     |          |  |
| 15              | QPSK       | 1       | 40        |                       | 19.56                    |                        | 20.5                | 0.0      |  |
| 15              | QPSK       | 1       | 77        |                       | 19.56                    |                        |                     |          |  |
| 15              | QPSK       | 36      | 0         |                       | 19.59                    |                        | 20.5                | 0.0      |  |
| 15              | QPSK       | 36      | 22        |                       | 19.60                    |                        | 20.5                | 0.0      |  |
| 15              | QPSK       | 36      | 43        |                       | 19.50                    |                        |                     |          |  |
| 15              | QPSK       | 75      | 0         |                       | 19.53                    |                        | 20.5                | 0.0      |  |
| 15              | 16QAM      | 1       | 1         |                       | 19.55                    |                        | 20.5                | 0.0      |  |
| 15              | 64QAM      | 1       | 1         |                       | 19.34                    |                        | 20.5                | 0.0      |  |
| 15              | 256QAM     | 1       | 1         |                       | 18.82                    |                        | 19.5                | 1.0      |  |
| Channel         |            |         |           | 340500                | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 19.51                 | 19.48                    | 19.50                  | 20.5                | 0.0      |  |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |  |
| 5               | QPSK       | 1       | 1         | 19.61                 | 19.42                    | 19.50                  | 20.5                | 0.0      |  |

| n70_Ant 2       |            |         |           |                       |                          |                        |                     |          |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |     |
| Channel         |            |         |           | 340500                |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |     |
| 15              | PI2 BPSK   | 1       | 1         |                       | 21.89                    |                        |                     |          |     |
| 15              | PI2 BPSK   | 1       | 40        |                       | 21.88                    |                        | 23.5                |          | 0.0 |
| 15              | PI2 BPSK   | 1       | 77        |                       | 21.72                    |                        |                     |          |     |
| 15              | PI2 BPSK   | 36      | 0         |                       | 21.76                    |                        | 23.5                |          | 0.0 |
| 15              | PI2 BPSK   | 36      | 22        |                       | 21.72                    |                        | 23.5                |          | 0.0 |
| 15              | PI2 BPSK   | 36      | 43        |                       | 21.80                    |                        |                     |          |     |
| 15              | PI2 BPSK   | 75      | 0         |                       | 21.85                    |                        | 23.5                |          | 0.0 |
| 15              | QPSK       | 1       | 1         |                       | 21.75                    |                        |                     |          |     |
| 15              | QPSK       | 1       | 40        |                       | 21.91                    |                        | 23.5                |          | 0.0 |
| 15              | QPSK       | 1       | 77        |                       | 21.84                    |                        |                     |          |     |
| 15              | QPSK       | 36      | 0         |                       | 21.28                    |                        | 23.0                |          | 0.5 |
| 15              | QPSK       | 36      | 22        |                       | 21.59                    |                        | 23.5                |          | 0.0 |
| 15              | QPSK       | 36      | 43        |                       | 21.30                    |                        |                     |          |     |
| 15              | QPSK       | 75      | 0         |                       | 21.41                    |                        | 23.0                |          | 0.5 |
| 15              | 16QAM      | 1       | 1         |                       | 21.26                    |                        | 23.0                |          | 0.5 |
| 15              | 64QAM      | 1       | 1         |                       | 20.18                    |                        | 21.5                |          | 2.0 |
| 15              | 256QAM     | 1       | 1         |                       | 17.84                    |                        | 19.5                |          | 4.0 |
| Channel         |            |         |           | 340000                | 340500                   | 341000                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz) |            |         |           | 3400                  | 3402.5                   | 3405                   |                     |          |     |
| 10              | QPSK       | 1       | 1         | 21.89                 | 21.65                    | 21.90                  | 23.5                |          | 0.0 |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dbm) | MPR (db) |     |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |     |
| 5               | QPSK       | 1       | 1         | 21.67                 | 21.65                    | 21.87                  | 23.5                |          | 0.0 |



| n71_Ant 0       |            |         |           |                          |                             |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 134600                   | 136100                      | 137600                    |                        |             |  |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.72                    | 22.75                       | 22.79                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 1       | 53        | 22.71                    | 22.65                       | 22.75                     |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.73                    | 22.80                       | 22.80                     |                        |             |  |
| 20              | PI/2 BPSK  | 50      | 0         | 21.87                    | 22.26                       | 22.15                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 50      | 26        | 22.72                    | 22.74                       | 22.78                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 56        | 21.78                    | 22.14                       | 22.42                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 100     | 0         | 21.76                    | 22.22                       | 22.27                     |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.76                    | 22.84                       | 22.76                     |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.66                    | 22.68                       | 22.65                     | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.71                    | 22.79                       | 22.74                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 21.65                    | 21.76                       | 21.73                     |                        |             |  |
| 20              | QPSK       | 50      | 26        | 22.73                    | 22.81                       | 22.74                     |                        |             |  |
| 20              | QPSK       | 50      | 56        | 21.57                    | 21.66                       | 21.68                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.69                    | 21.77                       | 21.76                     |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 21.60                    | 21.65                       | 21.67                     | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 20.29                    | 20.35                       | 20.38                     | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 17.90                    | 17.95                       | 17.98                     | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 134100                   | 136100                      | 138100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.74                    | 22.69                       | 22.66                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 668                      | 680.5                       | 693                       |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.64                    | 22.73                       | 22.59                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                       | 695.5                     |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.72                    | 22.76                       | 22.73                     | 24.0                   | 0.0         |  |

| n71_Ant 1       |            |         |           |                          |                             |                           |                        |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 134600                   | 136100                      | 137600                    |                        |             |  |
| Frequency (MHz) |            |         |           | 673                      | 680.5                       | 688                       |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 1         | 22.76                    | 22.83                       | 22.79                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 1       | 53        | 22.69                    | 22.81                       | 22.81                     |                        |             |  |
| 20              | PI/2 BPSK  | 1       | 104       | 22.69                    | 22.74                       | 22.72                     |                        |             |  |
| 20              | PI/2 BPSK  | 50      | 0         | 22.37                    | 22.35                       | 22.29                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 50      | 26        | 22.70                    | 22.75                       | 22.73                     | 24.0                   | 0.0         |  |
| 20              | PI/2 BPSK  | 50      | 56        | 22.19                    | 22.28                       | 22.16                     | 23.5                   | 0.5         |  |
| 20              | PI/2 BPSK  | 100     | 0         | 22.34                    | 22.37                       | 22.25                     |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.80                    | 22.84                       | 22.79                     |                        |             |  |
| 20              | QPSK       | 1       | 53        | 22.67                    | 22.76                       | 22.73                     | 24.0                   | 0.0         |  |
| 20              | QPSK       | 1       | 104       | 22.78                    | 22.82                       | 22.78                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 50      | 0         | 21.76                    | 21.76                       | 21.74                     |                        |             |  |
| 20              | QPSK       | 50      | 26        | 22.76                    | 22.80                       | 22.77                     |                        |             |  |
| 20              | QPSK       | 50      | 56        | 21.72                    | 21.71                       | 21.65                     | 23.0                   | 1.0         |  |
| 20              | QPSK       | 100     | 0         | 21.67                    | 21.76                       | 21.69                     |                        |             |  |
| 20              | 16QAM      | 1       | 1         | 21.65                    | 21.75                       | 21.77                     | 23.0                   | 1.0         |  |
| 20              | 64QAM      | 1       | 1         | 19.98                    | 19.98                       | 19.88                     | 21.5                   | 2.5         |  |
| 20              | 256QAM     | 1       | 1         | 18.52                    | 18.53                       | 18.53                     | 19.5                   | 4.5         |  |
| Channel         |            |         |           | 134100                   | 136100                      | 138100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 670.5                    | 680.5                       | 690.5                     |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.78                    | 22.76                       | 22.80                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133600                   | 136100                      | 138600                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 668                      | 680.5                       | 693                       |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.67                    | 22.68                       | 22.71                     | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 133100                   | 136100                      | 139100                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 665.5                    | 680.5                       | 695.5                     |                        |             |  |
| 5               | QPSK       | 1       | 1         | 22.71                    | 22.82                       | 22.67                     | 24.0                   | 0.0         |  |



### n38\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 518004                | 519000                   | 519996                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |
| 40              | Pi/2 BPSK  | 1       | 1         | 18.32                 | 18.35                    | 18.08                  |                     |          |
| 40              | Pi/2 BPSK  | 1       | 53        | 18.06                 | 17.99                    | 18.08                  |                     |          |
| 40              | Pi/2 BPSK  | 1       | 104       | 17.99                 | 18.01                    | 18.01                  | 19.5                | 0.0      |
| 40              | Pi/2 BPSK  | 50      | 0         | 18.03                 | 18.27                    | 18.12                  |                     |          |
| 40              | Pi/2 BPSK  | 50      | 28        | 18.11                 | 18.14                    | 18.12                  |                     |          |
| 40              | Pi/2 BPSK  | 50      | 56        | 18.03                 | 18.00                    | 18.01                  |                     |          |
| 40              | Pi/2 BPSK  | 100     | 0         | 17.86                 | 18.06                    | 17.78                  | 19.5                | 0.0      |
| 40              | QPSK       | 1       | 1         | 18.36                 | 18.42                    | 18.22                  |                     |          |
| 40              | QPSK       | 1       | 53        | 18.03                 | 18.04                    | 18.17                  |                     |          |
| 40              | QPSK       | 1       | 104       | 17.98                 | 18.04                    | 18.14                  |                     |          |
| 40              | QPSK       | 50      | 0         | 17.98                 | 18.21                    | 18.05                  | 19.5                | 0.0      |
| 40              | QPSK       | 50      | 28        | 18.36                 | 18.42                    | 18.29                  |                     |          |
| 40              | QPSK       | 50      | 56        | 17.97                 | 17.87                    | 17.89                  |                     |          |
| 40              | QPSK       | 100     | 0         | 17.90                 | 18.40                    | 17.80                  |                     |          |
| 40              | 16QAM      | 1       | 1         | 18.20                 | 18.25                    | 17.90                  | 19.5                | 0.0      |
| 40              | 64QAM      | 1       | 1         | 17.87                 | 18.04                    | 17.64                  | 19.5                | 0.0      |
| 40              | 256QAM     | 1       | 1         | 17.86                 | 18.00                    | 17.67                  | 19.5                | 0.0      |
| Channel         |            |         |           | 517002                | 519000                   | 520998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2583.01               | 2595                     | 2604.98                | 19.5                | 0.0      |
| 30              | QPSK       | 1       | 1         | 18.41                 | 18.33                    | 18.18                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 516504                | 519000                   | 521498                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2582.52               | 2595                     | 2607.48                | 19.5                | 0.0      |
| 25              | QPSK       | 1       | 1         | 18.18                 | 18.20                    | 18.09                  | 19.5                | 0.0      |
| Channel         |            |         |           | 516000                | 519000                   | 522000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2570                  | 2595                     | 2610                   | 19.5                | 0.0      |
| 20              | QPSK       | 1       | 1         | 18.32                 | 18.29                    | 18.18                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 515502                | 519000                   | 522498                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2577.51               | 2595                     | 2612.49                | 19.5                | 0.0      |
| 15              | QPSK       | 1       | 1         | 18.17                 | 18.23                    | 18.27                  | 19.5                | 0.0      |
| Channel         |            |         |           | 515004                | 519000                   | 522996                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2572.02               | 2595                     | 2614.98                | 19.5                | 0.0      |
| 10              | QPSK       | 1       | 1         | 18.13                 | 18.20                    | 18.35                  | 19.5                | 0.0      |

### n41\_Ant 0(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 | 19.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         | 17.16                 | 17.48                    | 17.11                  |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       | 17.36                 | 17.49                    | 17.25                  |                     |          |
| 100             | Pi/2 BPSK  | 1       | 271       | 17.25                 | 17.47                    | 17.36                  | 19.0                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 0         | 17.26                 | 17.48                    | 17.33                  |                     |          |
| 100             | Pi/2 BPSK  | 135     | 69        | 17.34                 | 17.53                    | 17.42                  |                     |          |
| 100             | Pi/2 BPSK  | 135     | 138       | 17.26                 | 17.38                    | 17.16                  |                     |          |
| 100             | Pi/2 BPSK  | 270     | 0         | 17.29                 | 17.47                    | 17.26                  | 19.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 17.51                 | 17.57                    | 17.45                  |                     |          |
| 100             | QPSK       | 1       | 137       | 17.36                 | 17.50                    | 17.37                  |                     |          |
| 100             | QPSK       | 1       | 271       | 17.25                 | 17.52                    | 17.31                  |                     |          |
| 100             | QPSK       | 135     | 0         | 17.23                 | 17.48                    | 17.33                  | 19.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 17.42                 | 17.65                    | 17.43                  |                     |          |
| 100             | QPSK       | 135     | 138       | 17.06                 | 17.37                    | 17.26                  |                     |          |
| 100             | QPSK       | 270     | 0         | 17.53                 | 17.52                    | 17.40                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 17.33                 | 17.51                    | 17.40                  | 19.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 17.26                 | 17.48                    | 17.35                  | 19.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 17.04                 | 17.25                    | 17.13                  | 19.0                | 0.0      |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2641                  | 2592.99                  | 2644.98                | 19.0                | 0.0      |
| 90              | QPSK       | 1       | 1         | 17.38                 | 17.35                    | 17.53                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2648.99                | 19.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 17.46                 | 17.49                    | 17.28                  | 19.0                | 0.0      |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2645                   | 19.0                | 0.0      |
| 70              | QPSK       | 1       | 1         | 17.54                 | 17.33                    | 17.29                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 505200                | 518598                   | 531998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2658.98                | 19.0                | 0.0      |
| 60              | QPSK       | 1       | 1         | 17.24                 | 17.40                    | 17.29                  | 19.0                | 0.0      |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                | 19.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 17.24                 | 17.41                    | 17.33                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | 19.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 17.41                 | 17.45                    | 17.36                  | 19.0                | 0.0      |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | 19.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 17.58                 | 17.36                    | 17.19                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                | 19.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 17.31                 | 17.39                    | 17.34                  | 19.0                | 0.0      |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | 19.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 17.52                 | 17.36                    | 17.29                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | 19.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 17.56                 | 17.47                    | 17.18                  | 19.0                | 0.0      |

### n41(HPUE)\_Ant 0(FCC)

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 509202                | 518598                   | 528000                 | 22.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | Pi/2 BPSK  | 1       | 1         | 20.43                 | 20.54                    | 20.54                  |                     |          |
| 100             | Pi/2 BPSK  | 1       | 137       | 20.31                 | 20.49                    | 20.31                  |                     |          |
| 100             | Pi/2 BPSK  | 1       | 271       | 20.25                 | 20.42                    | 20.33                  | 22.0                | 0.0      |
| 100             | Pi/2 BPSK  | 135     | 0         | 20.32                 | 20.48                    | 20.37                  |                     |          |
| 100             | Pi/2 BPSK  | 135     | 69        | 20.35                 | 20.44                    | 20.39                  |                     |          |
| 100             | Pi/2 BPSK  | 135     | 138       | 20.29                 | 20.41                    | 20.30                  |                     |          |
| 100             | Pi/2 BPSK  | 270     | 0         | 20.25                 | 20.49                    | 20.36                  | 22.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 20.53                 | 20.55                    | 20.47                  |                     |          |
| 100             | QPSK       | 1       | 137       | 20.45                 | 20.53                    | 20.26                  |                     |          |
| 100             | QPSK       | 1       | 271       | 20.24                 | 20.42                    | 20.19                  |                     |          |
| 100             | QPSK       | 135     | 0         | 20.39                 | 20.49                    | 20.37                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 20.46                 | 20.53                    | 20.41                  |                     |          |
| 100             | QPSK       | 135     | 138       | 20.36                 | 20.37                    | 20.17                  |                     |          |
| 100             | QPSK       | 270     | 0         | 20.29                 | 20.51                    | 20.36                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 20.31                 | 20.42                    | 20.33                  | 22.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 20.31                 | 20.46                    | 20.29                  | 22.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 20.13                 | 20.29                    | 20.19                  | 22.0                | 0.0      |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2641                  | 2592.99                  | 2644.98                | 22.0                | 0.0      |
| 90              | QPSK       | 1       | 1         | 20.37                 | 20.38                    | 20.40                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2648.99                | 22.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 20.40                 | 20.52                    | 20.50                  | 22.0                | 0.0      |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2645                   | 22.0                | 0.0      |
| 70              | QPSK       | 1       | 1         | 20.28                 | 20.39                    | 20.43                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 505200                | 518598                   | 531998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2658.98                | 22.0                | 0.0      |
| 60              | QPSK       | 1       | 1         | 20.35                 | 20.53                    | 20.38                  | 22.0                | 0.0      |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                | 22.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 20.37                 | 20.50                    | 20.20                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | 22.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 20.40                 | 20.41                    | 20.31                  | 22.0                | 0.0      |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | 22.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 20.51                 | 20.50                    | 20.47                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                | 22.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 20.31                 | 20.47                    | 20.35                  | 22.0                | 0.0      |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | 22.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 20.38                 | 20.46                    | 20.50                  | Tune-up limit (dBm) | MPR      |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR      |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | 22.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 20.36                 | 20.35                    | 20.23                  | 22.0                | 0.0      |



| n41_Ant 1(FCC)  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | PV2 BPSK   | 1       | 1         | 18.45                 | 18.53                    | 18.29                  |                     |          |
| 100             | PV2 BPSK   | 1       | 137       | 18.28                 | 18.18                    | 18.23                  |                     |          |
| 100             | PV2 BPSK   | 1       | 271       | 18.22                 | 18.15                    | 18.12                  | 19.5                | 0.0      |
| 100             | PV2 BPSK   | 135     | 0         | 18.18                 | 18.39                    | 18.25                  |                     |          |
| 100             | PV2 BPSK   | 135     | 69        | 18.27                 | 18.25                    | 18.29                  |                     |          |
| 100             | PV2 BPSK   | 135     | 138       | 18.13                 | 18.12                    | 18.13                  |                     |          |
| 100             | PV2 BPSK   | 270     | 0         | 17.99                 | 18.19                    | 17.98                  | 19.5                | 0.0      |
| 100             | QPSK       | 1       | 1         | 18.45                 | 18.55                    | 18.42                  |                     |          |
| 100             | QPSK       | 1       | 137       | 18.18                 | 18.19                    | 18.30                  |                     |          |
| 100             | QPSK       | 1       | 271       | 18.14                 | 18.20                    | 18.24                  |                     |          |
| 100             | QPSK       | 135     | 0         | 18.21                 | 18.31                    | 18.20                  | 19.5                | 0.0      |
| 100             | QPSK       | 135     | 69        | 18.40                 | 18.53                    | 18.34                  |                     |          |
| 100             | QPSK       | 135     | 138       | 18.10                 | 18.06                    | 18.04                  |                     |          |
| 100             | QPSK       | 270     | 0         | 18.06                 | 18.50                    | 18.01                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 18.43                 | 18.39                    | 18.21                  | 19.5                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 18.08                 | 18.14                    | 17.88                  | 19.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 17.91                 | 18.10                    | 17.94                  | 19.5                | 0.0      |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 18.52                 | 18.41                    | 18.40                  |                     |          |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 18.29                 | 18.40                    | 18.43                  |                     |          |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70              | QPSK       | 1       | 1         | 18.37                 | 18.52                    | 18.37                  |                     |          |
| Channel         |            |         |           | 505200                | 518598                   | 531998                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 18.34                 | 18.49                    | 18.42                  |                     |          |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 18.35                 | 18.24                    | 18.40                  |                     |          |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 18.16                 | 18.45                    | 18.22                  |                     |          |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 18.51                 | 18.45                    | 18.32                  |                     |          |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 18.28                 | 18.50                    | 18.37                  |                     |          |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 18.29                 | 18.37                    | 18.33                  |                     |          |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | 19.5                | 0.0      |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |
| 10              | QPSK       | 1       | 1         | 18.52                 | 18.37                    | 18.28                  |                     |          |

| n41(HPUE)_Ant 1(FCC) |            |         |           |                       |                          |                        |                     |          |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel              |            |         |           | 509202                | 518598                   | 528000                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100                  | PV2 BPSK   | 1       | 1         | 21.23                 | 21.19                    | 21.53                  |                     |          |
| 100                  | PV2 BPSK   | 1       | 137       | 21.42                 | 21.40                    | 21.49                  |                     |          |
| 100                  | PV2 BPSK   | 1       | 271       | 21.42                 | 21.41                    | 21.47                  | 22.5                | 0.0      |
| 100                  | PV2 BPSK   | 135     | 0         | 21.53                 | 21.41                    | 21.49                  |                     |          |
| 100                  | PV2 BPSK   | 135     | 69        | 21.54                 | 21.45                    | 21.51                  |                     |          |
| 100                  | PV2 BPSK   | 135     | 138       | 21.40                 | 21.43                    | 21.42                  |                     |          |
| 100                  | PV2 BPSK   | 270     | 0         | 21.53                 | 21.48                    | 21.58                  | 22.5                | 0.0      |
| 100                  | QPSK       | 1       | 1         | 21.42                 | 21.81                    | 21.46                  |                     |          |
| 100                  | QPSK       | 1       | 137       | 21.37                 | 21.47                    | 21.38                  |                     |          |
| 100                  | QPSK       | 1       | 271       | 21.16                 | 21.13                    | 21.19                  |                     |          |
| 100                  | QPSK       | 135     | 0         | 21.33                 | 21.16                    | 21.27                  | 22.5                | 0.0      |
| 100                  | QPSK       | 135     | 69        | 21.44                 | 21.59                    | 21.39                  |                     |          |
| 100                  | QPSK       | 135     | 138       | 21.18                 | 21.18                    | 21.20                  |                     |          |
| 100                  | QPSK       | 270     | 0         | 21.59                 | 21.55                    | 21.44                  |                     |          |
| 100                  | 16QAM      | 1       | 1         | 21.17                 | 21.18                    | 21.15                  | 22.5                | 0.0      |
| 100                  | 64QAM      | 1       | 1         | 21.06                 | 21.16                    | 21.14                  | 22.5                | 0.0      |
| 100                  | 256QAM     | 1       | 1         | 21.30                 | 21.37                    | 21.36                  | 22.5                | 0.0      |
| Channel              |            |         |           | 508200                | 518598                   | 528996                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90                   | QPSK       | 1       | 1         | 21.17                 | 21.43                    | 21.42                  |                     |          |
| Channel              |            |         |           | 507204                | 518598                   | 529998                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |
| 80                   | QPSK       | 1       | 1         | 21.52                 | 21.44                    | 21.18                  |                     |          |
| Channel              |            |         |           | 506202                | 518598                   | 531000                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70                   | QPSK       | 1       | 1         | 21.41                 | 21.34                    | 21.18                  |                     |          |
| Channel              |            |         |           | 505200                | 518598                   | 531998                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60                   | QPSK       | 1       | 1         | 21.35                 | 21.41                    | 21.38                  |                     |          |
| Channel              |            |         |           | 504204                | 518598                   | 532998                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |
| 50                   | QPSK       | 1       | 1         | 21.16                 | 21.49                    | 21.30                  |                     |          |
| Channel              |            |         |           | 503202                | 518598                   | 534000                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40                   | QPSK       | 1       | 1         | 21.38                 | 21.45                    | 21.24                  |                     |          |
| Channel              |            |         |           | 502200                | 518598                   | 534996                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |
| 30                   | QPSK       | 1       | 1         | 21.34                 | 21.52                    | 21.19                  |                     |          |
| Channel              |            |         |           | 501204                | 518598                   | 535998                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20                   | QPSK       | 1       | 1         | 21.19                 | 21.51                    | 21.44                  |                     |          |
| Channel              |            |         |           | 500700                | 518598                   | 536496                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |
| 15                   | QPSK       | 1       | 1         | 21.18                 | 21.40                    | 21.50                  |                     |          |
| Channel              |            |         |           | 500202                | 518598                   | 537000                 | 22.5                | 0.0      |
| Frequency (MHz)      |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |
| 10                   | QPSK       | 1       | 1         | 21.52                 | 21.35                    | 21.20                  |                     |          |

| n41_Ant 2(FCC)  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |
| Channel         |            |         |           | 509202                | 518598                   | 528000                 | 22.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | PV2 BPSK   | 1       | 1         | 20.42                 | 20.44                    | 20.22                  |                     |          |
| 100             | PV2 BPSK   | 1       | 137       | 20.32                 | 20.57                    | 20.45                  |                     |          |
| 100             | PV2 BPSK   | 1       | 271       | 20.38                 | 20.54                    | 20.32                  | 22.0                | 0.0      |
| 100             | PV2 BPSK   | 135     | 0         | 20.30                 | 20.45                    | 20.26                  |                     |          |
| 100             | PV2 BPSK   | 135     | 69        | 20.27                 | 20.49                    | 20.32                  |                     |          |
| 100             | PV2 BPSK   | 135     | 138       | 20.36                 | 20.54                    | 20.35                  |                     |          |
| 100             | PV2 BPSK   | 270     | 0         | 20.23                 | 20.42                    | 20.27                  | 22.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 20.57                 | 20.96                    | 20.51                  |                     |          |
| 100             | QPSK       | 1       | 137       | 20.43                 | 20.53                    | 20.45                  |                     |          |
| 100             | QPSK       | 1       | 271       | 20.33                 | 20.53                    | 20.30                  |                     |          |
| 100             | QPSK       | 135     | 0         | 20.29                 | 20.41                    | 20.27                  | 22.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 20.51                 | 20.64                    | 20.49                  |                     |          |
| 100             | QPSK       | 135     | 138       | 20.28                 | 20.46                    | 20.24                  |                     |          |
| 100             | QPSK       | 270     | 0         | 20.51                 | 20.52                    | 20.49                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 20.14                 | 20.33                    | 20.13                  | 22.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 20.06                 | 20.23                    | 20.05                  | 22.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 20.40                 | 20.59                    | 20.41                  | 22.0                | 0.0      |
| Channel         |            |         |           | 508200                | 518598                   | 528996                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 20.40                 | 20.42                    | 20.51                  |                     |          |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 20.46                 | 20.43                    | 20.31                  |                     |          |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   |                     |          |
| 70              | QPSK       | 1       | 1         | 20.59                 | 20.44                    | 20.58                  |                     |          |
| Channel         |            |         |           | 505200                | 518598                   | 531998                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 20.51                 | 20.64                    | 20.50                  |                     |          |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 20.63                 | 20.41                    | 20.59                  |                     |          |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   |                     |          |
| 40              | QPSK       | 1       | 1         | 20.34                 | 20.54                    | 20.33                  |                     |          |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 20.60                 | 20.53                    | 20.59                  |                     |          |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 20.52                 | 20.46                    | 20.31                  |                     |          |
| Channel         |            |         |           | 500700                | 518598                   | 536996                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 20.61                 | 20.44                    | 20.47                  |                     |          |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | 22.0                | MPR (db) |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   |                     |          |
| 10              | QPSK       | 1       | 1         | 20.35                 | 20.56                    | 20.39                  |                     |          |



| n41(HPUE)_Ant 2(FCC) |            |         |           |                       |                          |                        |                     |          |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel              |            |         |           | 506202                | 518598                   | 528000                 |                     |          |
| Frequency (MHz)      |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100                  | Pi2 BPSK   | 1       | 1         | 23.40                 | 23.55                    | 23.40                  | 25.0                | 0.0      |
| 100                  | Pi2 BPSK   | 1       | 137       | 23.52                 | 23.62                    | 23.38                  |                     |          |
| 100                  | Pi2 BPSK   | 1       | 271       | 23.48                 | 23.58                    | 23.41                  |                     |          |
| 100                  | Pi2 BPSK   | 135     | 0         | 23.39                 | 23.57                    | 23.35                  | 25.0                | 0.0      |
| 100                  | Pi2 BPSK   | 135     | 69        | 23.44                 | 23.61                    | 23.48                  | 25.0                | 0.0      |
| 100                  | Pi2 BPSK   | 135     | 138       | 23.38                 | 23.54                    | 23.41                  | 25.0                | 0.0      |
| 100                  | Pi2 BPSK   | 270     | 0         | 23.35                 | 23.49                    | 23.36                  |                     |          |
| 100                  | QPSK       | 1       | 1         | 23.57                 | 23.63                    | 23.51                  | 25.0                | 0.0      |
| 100                  | QPSK       | 1       | 137       | 23.49                 | 23.58                    | 23.34                  |                     |          |
| 100                  | QPSK       | 1       | 271       | 23.38                 | 23.61                    | 23.38                  |                     |          |
| 100                  | QPSK       | 135     | 0         | 23.37                 | 23.55                    | 23.32                  | 25.0                | 0.0      |
| 100                  | QPSK       | 135     | 69        | 23.50                 | 23.61                    | 23.47                  |                     |          |
| 100                  | QPSK       | 135     | 138       | 23.29                 | 23.45                    | 23.23                  |                     |          |
| 100                  | QPSK       | 270     | 0         | 23.48                 | 23.56                    | 23.36                  |                     |          |
| 100                  | 16QAM      | 1       | 1         | 23.31                 | 23.53                    | 23.38                  | 25.0                | 0.0      |
| 100                  | 64QAM      | 1       | 1         | 23.19                 | 23.42                    | 23.32                  | 24.5                | 0.5      |
| 100                  | 256QAM     | 1       | 1         | 21.01                 | 21.22                    | 20.99                  | 22.5                | 2.5      |
| Channel              |            |         |           | 506200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2541                  | 2592.99                  | 2644.98                | 25.0                | 0.0      |
| 90                   | QPSK       | 1       | 1         | 23.49                 | 23.48                    | 23.36                  | 25.0                | 0.0      |
| Channel              |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2536.02               | 2592.99                  | 2649.99                | 25.0                | 0.0      |
| 80                   | QPSK       | 1       | 1         | 23.39                 | 23.56                    | 23.58                  | 25.0                | 0.0      |
| Channel              |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2531.01               | 2592.99                  | 2655                   | 25.0                | 0.0      |
| 70                   | QPSK       | 1       | 1         | 23.45                 | 23.45                    | 23.59                  | 25.0                | 0.0      |
| Channel              |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2526                  | 2592.99                  | 2659.98                | 25.0                | 0.0      |
| 60                   | QPSK       | 1       | 1         | 23.39                 | 23.62                    | 23.46                  | 25.0                | 0.0      |
| Channel              |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2521.02               | 2592.99                  | 2654.99                | 25.0                | 0.0      |
| 50                   | QPSK       | 1       | 1         | 23.62                 | 23.40                    | 23.37                  | 25.0                | 0.0      |
| Channel              |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2516.01               | 2592.99                  | 2670                   | 25.0                | 0.0      |
| 40                   | QPSK       | 1       | 1         | 23.37                 | 23.44                    | 23.43                  | 25.0                | 0.0      |
| Channel              |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2511                  | 2592.99                  | 2674.98                | 25.0                | 0.0      |
| 30                   | QPSK       | 1       | 1         | 23.55                 | 23.50                    | 23.36                  | 25.0                | 0.0      |
| Channel              |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2506.02               | 2592.99                  | 2679.99                | 25.0                | 0.0      |
| 20                   | QPSK       | 1       | 1         | 23.50                 | 23.44                    | 23.23                  | 25.0                | 0.0      |
| Channel              |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2503.5                | 2592.99                  | 2682.48                | 25.0                | 0.0      |
| 15                   | QPSK       | 1       | 1         | 23.32                 | 23.48                    | 23.36                  | 25.0                | 0.0      |
| Channel              |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)      |            |         |           | 2501.01               | 2592.99                  | 2685                   | 25.0                | 0.0      |
| 10                   | QPSK       | 1       | 1         | 23.51                 | 23.45                    | 23.28                  | 25.0                | 0.0      |

| n41_Ant 4(FCC)  |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 506202                | 518598                   | 528000                 | 21.0                | 0.0      |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100             | Pi2 BPSK   | 1       | 1         | 20.25                 | 20.32                    | 20.22                  |                     |          |
| 100             | Pi2 BPSK   | 1       | 137       | 20.22                 | 20.20                    | 20.16                  |                     |          |
| 100             | Pi2 BPSK   | 1       | 271       | 20.14                 | 20.27                    | 20.04                  | 21.0                | 0.0      |
| 100             | Pi2 BPSK   | 135     | 0         | 20.06                 | 20.23                    | 20.10                  |                     |          |
| 100             | Pi2 BPSK   | 135     | 69        | 20.22                 | 20.29                    | 20.20                  |                     |          |
| 100             | Pi2 BPSK   | 135     | 138       | 20.11                 | 20.14                    | 20.14                  |                     |          |
| 100             | Pi2 BPSK   | 270     | 0         | 20.18                 | 20.20                    | 20.16                  | 21.0                | 0.0      |
| 100             | QPSK       | 1       | 1         | 20.28                 | 20.35                    | 20.24                  |                     |          |
| 100             | QPSK       | 1       | 137       | 20.15                 | 20.19                    | 20.11                  |                     |          |
| 100             | QPSK       | 1       | 271       | 20.20                 | 20.28                    | 20.15                  |                     |          |
| 100             | QPSK       | 135     | 0         | 20.20                 | 20.22                    | 20.07                  | 21.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 20.26                 | 20.36                    | 20.21                  |                     |          |
| 100             | QPSK       | 135     | 138       | 20.13                 | 20.17                    | 20.12                  |                     |          |
| 100             | QPSK       | 270     | 0         | 20.22                 | 20.34                    | 20.18                  |                     |          |
| 100             | 16QAM      | 1       | 1         | 20.14                 | 20.30                    | 20.17                  | 21.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 20.21                 | 20.24                    | 20.05                  | 21.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 20.07                 | 20.23                    | 20.09                  | 21.0                | 0.0      |
| Channel         |            |         |           | 506200                | 518598                   | 528996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                | 21.0                | 0.0      |
| 90              | QPSK       | 1       | 1         | 19.92                 | 20.19                    | 20.23                  | 21.0                | 0.0      |
| Channel         |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2536.02               | 2592.99                  | 2649.99                | 21.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 19.84                 | 20.23                    | 20.26                  | 21.0                | 0.0      |
| Channel         |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   | 21.0                | 0.0      |
| 70              | QPSK       | 1       | 1         | 19.94                 | 19.90                    | 20.01                  | 21.0                | 0.0      |
| Channel         |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2526                  | 2592.99                  | 2659.98                | 21.0                | 0.0      |
| 60              | QPSK       | 1       | 1         | 19.89                 | 19.97                    | 20.19                  | 21.0                | 0.0      |
| Channel         |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2654.99                | 21.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 19.94                 | 20.15                    | 20.01                  | 21.0                | 0.0      |
| Channel         |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2516.01               | 2592.99                  | 2670                   | 21.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 19.99                 | 20.18                    | 20.10                  | 21.0                | 0.0      |
| Channel         |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | 21.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 19.90                 | 20.23                    | 20.26                  | 21.0                | 0.0      |
| Channel         |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2506.02               | 2592.99                  | 2679.99                | 21.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 19.95                 | 20.08                    | 20.25                  | 21.0                | 0.0      |
| Channel         |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | 21.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 19.85                 | 20.07                    | 20.10                  | 21.0                | 0.0      |
| Channel         |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2501.01               | 2592.99                  | 2685                   | 21.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 19.93                 | 19.97                    | 20.17                  | 21.0                | 0.0      |

| n41(HPUE)_Ant 4(FCC) |            |         |           |                       |                          |                        |                     |          |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPR (db) |
| Channel              |            |         |           | 509202                | 518598                   | 528000                 | 24.0                | 0.0      |
| Frequency (MHz)      |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |
| 100                  | Pi2 BPSK   | 1       | 1         | 23.14                 | 23.36                    | 23.21                  |                     |          |
| 100                  | Pi2 BPSK   | 1       | 137       | 23.04                 | 22.87                    | 23.00                  |                     |          |
| 100                  | Pi2 BPSK   | 1       | 271       | 23.07                 | 23.21                    | 23.14                  | 24.0                | 0.0      |
| 100                  | Pi2 BPSK   | 135     | 0         | 22.89                 | 23.02                    | 22.95                  |                     |          |
| 100                  | Pi2 BPSK   | 135     | 69        | 23.10                 | 23.29                    | 23.16                  |                     |          |
| 100                  | Pi2 BPSK   | 135     | 138       | 23.06                 | 23.16                    | 23.03                  |                     |          |
| 100                  | Pi2 BPSK   | 270     | 0         | 23.00                 | 23.08                    | 23.01                  | 24.0                | 0.0      |
| 100                  | QPSK       | 1       | 1         | 23.15                 | 23.40                    | 23.24                  |                     |          |
| 100                  | QPSK       | 1       | 137       | 23.08                 | 22.96                    | 23.20                  |                     |          |
| 100                  | QPSK       | 1       | 271       | 23.11                 | 23.13                    | 23.16                  |                     |          |
| 100                  | QPSK       | 135     | 0         | 23.00                 | 22.93                    | 23.06                  | 24.0                | 0.0      |
| 100                  | QPSK       | 135     | 69        | 23.17                 | 23.37                    | 23.21                  |                     |          |
| 100                  | QPSK       | 135     | 138       | 22.94                 | 23.00                    | 23.02                  |                     |          |
| 100                  | QPSK       | 270     | 0         | 23.15                 | 23.07                    | 23.19                  |                     |          |
| 100                  | 16QAM      | 1       | 1         | 22.82                 | 22.96                    | 22.88                  | 24.0                | 0.0      |
| 100                  | 64QAM      | 1       | 1         | 21.05                 | 21.21                    | 21.19                  | 22.5                | 1.5      |
| 100                  | 256QAM     | 1       | 1         | 19.87                 | 20.24                    | 20.18                  | 21.0                | 3.0      |
| Channel              |            |         |           | 506200                | 518598                   | 528996                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2541                  | 2592.99                  | 2644.98                | 24.0                | 0.0      |
| 90                   | QPSK       | 1       | 1         | 23.27                 | 23.25                    | 23.18                  | 24.0                | 0.0      |
| Channel              |            |         |           | 507204                | 518598                   | 529998                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2536.02               | 2592.99                  | 2649.99                | 24.0                | 0.0      |
| 80                   | QPSK       | 1       | 1         | 23.33                 | 23.36                    | 23.13                  | 24.0                | 0.0      |
| Channel              |            |         |           | 506202                | 518598                   | 531000                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2531.01               | 2592.99                  | 2655                   | 24.0                | 0.0      |
| 70                   | QPSK       | 1       | 1         | 23.09                 | 23.32                    | 23.35                  | 24.0                | 0.0      |
| Channel              |            |         |           | 505200                | 518598                   | 531996                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2526                  | 2592.99                  | 2659.98                | 24.0                | 0.0      |
| 60                   | QPSK       | 1       | 1         | 23.30                 | 23.28                    | 23.03                  | 24.0                | 0.0      |
| Channel              |            |         |           | 504204                | 518598                   | 532998                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2521.02               | 2592.99                  | 2654.99                | 24.0                | 0.0      |
| 50                   | QPSK       | 1       | 1         | 23.31                 | 23.10                    | 23.04                  | 24.0                | 0.0      |
| Channel              |            |         |           | 503202                | 518598                   | 534000                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2516.01               | 2592.99                  | 2670                   | 24.0                | 0.0      |
| 40                   | QPSK       | 1       | 1         | 23.30                 | 23.19                    | 23.17                  | 24.0                | 0.0      |
| Channel              |            |         |           | 502200                | 518598                   | 534996                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2511                  | 2592.99                  | 2674.98                | 24.0                | 0.0      |
| 30                   | QPSK       | 1       | 1         | 23.38                 | 23.10                    | 22.88                  | 24.0                | 0.0      |
| Channel              |            |         |           | 501204                | 518598                   | 535998                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2506.02               | 2592.99                  | 2679.99                | 24.0                | 0.0      |
| 20                   | QPSK       | 1       | 1         | 23.30                 | 23.22                    | 22.92                  | 24.0                | 0.0      |
| Channel              |            |         |           | 500700                | 518598                   | 536496                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2503.5                | 2592.99                  | 2662.48                | 24.0                | 0.0      |
| 15                   | QPSK       | 1       | 1         | 23.16                 | 23.24                    | 23.11                  | 24.0                | 0.0      |
| Channel              |            |         |           | 500202                | 518598                   | 537000                 | Tune-up limit (dbm) | MPR (db) |
| Frequency (MHz)      |            |         |           | 2501.01               | 2592.99                  | 2685                   | 24.0                | 0.0      |
| 10                   | QPSK       | 1       | 1         | 23.29                 | 23.19                    | 23.10                  | 24.0                | 0.0      |



Part96\_n48\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 638000                   | 641666                      | 645332                    | 19.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3570                     | 3624.99                     | 3679.98                   |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 17.92                    | 18.12                       | 17.84                     |                        |             |
| 40              | PI2 BPSK   | 1       | 53        | 17.85                    | 18.13                       | 17.91                     |                        |             |
| 40              | PI2 BPSK   | 1       | 104       | 18.03                    | 18.18                       | 17.98                     | 19.0                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 0         | 17.95                    | 18.15                       | 18.04                     |                        |             |
| 40              | PI2 BPSK   | 50      | 28        | 17.90                    | 18.12                       | 17.99                     |                        |             |
| 40              | PI2 BPSK   | 50      | 56        | 17.88                    | 18.17                       | 18.07                     |                        |             |
| 40              | PI2 BPSK   | 100     | 0         | 17.87                    | 18.13                       | 17.96                     | 19.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 18.09                    | 18.23                       | 18.03                     |                        |             |
| 40              | QPSK       | 1       | 53        | 17.83                    | 18.09                       | 17.97                     |                        |             |
| 40              | QPSK       | 1       | 104       | 17.89                    | 18.15                       | 18.01                     |                        |             |
| 40              | QPSK       | 50      | 0         | 17.93                    | 18.18                       | 17.93                     | 19.0                   | 0.0         |
| 40              | QPSK       | 50      | 28        | 18.01                    | 18.21                       | 17.95                     |                        |             |
| 40              | QPSK       | 50      | 56        | 17.88                    | 18.06                       | 17.91                     |                        |             |
| 40              | QPSK       | 100     | 0         | 17.95                    | 18.20                       | 17.92                     |                        |             |
| 40              | 16QAM      | 1       | 1         | 17.75                    | 17.96                       | 17.74                     | 19.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 17.99                    | 18.19                       | 18.02                     |                        |             |
| 40              | 256QAM     | 1       | 1         | 17.61                    | 17.83                       | 17.62                     |                        |             |
| Channel         |            |         |           | 637668                   | 641666                      | 645666                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565.02                  | 3624.99                     | 3684.99                   | 19.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 18.12                    | 18.13                       | 17.80                     | 19.0                   | 0.0         |
| Channel         |            |         |           | 637334                   | 641666                      | 646000                    |                        |             |
| Frequency (MHz) |            |         |           | 3560.01                  | 3624.99                     | 3690                      |                        |             |
| 20              | QPSK       | 1       | 1         | 18.02                    | 18.21                       | 17.76                     |                        |             |
| Channel         |            |         |           | 637168                   | 641666                      | 646166                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.52                  | 3624.99                     | 3692.49                   | 19.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 17.99                    | 18.02                       | 17.94                     | 19.0                   | 0.0         |
| Channel         |            |         |           | 637000                   | 641666                      | 646332                    |                        |             |
| Frequency (MHz) |            |         |           | 3555                     | 3624.99                     | 3694.98                   |                        |             |
| 10              | QPSK       | 1       | 1         | 18.12                    | 18.12                       | 17.88                     |                        |             |

Part96\_n48\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 638000                   | 641666                      | 645332                    | 18.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3570                     | 3624.99                     | 3679.98                   |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 18.81                    | 17.02                       | 17.00                     |                        |             |
| 40              | PI2 BPSK   | 1       | 53        | 18.86                    | 16.96                       | 16.72                     |                        |             |
| 40              | PI2 BPSK   | 1       | 104       | 16.85                    | 16.95                       | 16.80                     | 18.0                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 0         | 16.90                    | 17.02                       | 16.90                     |                        |             |
| 40              | PI2 BPSK   | 50      | 28        | 16.82                    | 17.01                       | 16.91                     |                        |             |
| 40              | PI2 BPSK   | 50      | 56        | 16.75                    | 16.91                       | 16.75                     |                        |             |
| 40              | PI2 BPSK   | 100     | 0         | 16.81                    | 16.93                       | 16.76                     | 18.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 17.02                    | 17.05                       | 16.93                     |                        |             |
| 40              | QPSK       | 1       | 53        | 16.65                    | 16.94                       | 16.73                     |                        |             |
| 40              | QPSK       | 1       | 104       | 16.77                    | 16.90                       | 16.78                     |                        |             |
| 40              | QPSK       | 50      | 0         | 16.82                    | 16.92                       | 16.80                     | 18.0                   | 0.0         |
| 40              | QPSK       | 50      | 28        | 16.88                    | 17.03                       | 16.98                     |                        |             |
| 40              | QPSK       | 50      | 56        | 16.88                    | 16.84                       | 16.71                     |                        |             |
| 40              | QPSK       | 100     | 0         | 16.83                    | 16.95                       | 16.84                     |                        |             |
| 40              | 16QAM      | 1       | 1         | 16.75                    | 16.93                       | 16.71                     | 18.0                   | 0.0         |
| 40              | 64QAM      | 1       | 1         | 16.87                    | 16.99                       | 16.82                     |                        |             |
| 40              | 256QAM     | 1       | 1         | 16.62                    | 16.72                       | 16.55                     |                        |             |
| Channel         |            |         |           | 637668                   | 641666                      | 645666                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565.02                  | 3624.99                     | 3684.99                   | 18.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 18.91                    | 17.00                       | 16.74                     | 18.0                   | 0.0         |
| Channel         |            |         |           | 637334                   | 641666                      | 646000                    |                        |             |
| Frequency (MHz) |            |         |           | 3560.01                  | 3624.99                     | 3690                      |                        |             |
| 20              | QPSK       | 1       | 1         | 16.94                    | 17.03                       | 16.98                     |                        |             |
| Channel         |            |         |           | 637168                   | 641666                      | 646166                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.52                  | 3624.99                     | 3692.49                   | 18.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 18.92                    | 16.91                       | 16.76                     | 18.0                   | 0.0         |
| Channel         |            |         |           | 637000                   | 641666                      | 646332                    |                        |             |
| Frequency (MHz) |            |         |           | 3555                     | 3624.99                     | 3694.98                   |                        |             |
| 10              | QPSK       | 1       | 1         | 16.89                    | 16.83                       | 16.97                     |                        |             |

Part27Q\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|--------------------------|--------------------------------|---------------------------|------------------------|-------------|
| Channel         |            |         |           | 633332                   |                                |                           | 17.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 3499.98                  |                                |                           |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 15.97                    |                                |                           |                        |             |
| 100             | PI2 BPSK   | 1       | 137       | 16.18                    |                                |                           |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 16.21                    |                                |                           |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 16.19                    |                                |                           |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 16.29                    |                                |                           |                        |             |
| 100             | PI2 BPSK   | 135     | 138       | 16.03                    |                                |                           |                        |             |
| 100             | PI2 BPSK   | 270     | 0         | 16.05                    |                                |                           |                        |             |
| 100             | QPSK       | 1       | 1         | 16.30                    |                                |                           |                        |             |
| 100             | QPSK       | 1       | 137       | 16.28                    |                                |                           |                        |             |
| 100             | QPSK       | 1       | 271       | 16.01                    |                                |                           |                        |             |
| 100             | QPSK       | 135     | 0         | 16.02                    |                                |                           |                        |             |
| 100             | QPSK       | 135     | 69        | 16.28                    |                                |                           |                        |             |
| 100             | QPSK       | 135     | 138       | 15.97                    |                                |                           |                        |             |
| 100             | QPSK       | 270     | 0         | 16.27                    |                                |                           |                        |             |
| 100             | 16QAM      | 1       | 1         | 16.00                    |                                |                           |                        |             |
| 100             | 64QAM      | 1       | 1         | 16.15                    |                                |                           |                        |             |
| 100             | 256QAM     | 1       | 1         | 15.82                    |                                |                           |                        |             |
| Channel         |            |         |           | 633000                   | 633332                         | 633666                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                     | 3499.98                        | 3504.99                   | 17.0                   | 0.0         |
| 90              | QPSK       | 1       | 1         | 16.22                    | 16.10                          | 16.09                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 632668                   | 633332                         | 634000                    |                        |             |
| Frequency (MHz) |            |         |           | 3490.02                  | 3499.98                        | 3510                      |                        |             |
| 80              | QPSK       | 1       | 1         | 15.96                    | 16.06                          | 16.05                     |                        |             |
| Channel         |            |         |           | 632334                   | 633332                         | 634332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                  | 3499.98                        | 3514.98                   | 17.0                   | 0.0         |
| 70              | QPSK       | 1       | 1         | 16.28                    | 16.13                          | 16.11                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 632000                   | 633332                         | 634666                    |                        |             |
| Frequency (MHz) |            |         |           | 3480                     | 3499.98                        | 3519.99                   |                        |             |
| 60              | QPSK       | 1       | 1         | 16.16                    | 16.07                          | 16.03                     |                        |             |
| Channel         |            |         |           | 631668                   | 633332                         | 635000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                  | 3499.98                        | 3525                      | 17.0                   | 0.0         |
| 50              | QPSK       | 1       | 1         | 16.28                    | 15.99                          | 16.00                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 631334                   | 633332                         | 635332                    |                        |             |
| Frequency (MHz) |            |         |           | 3470.01                  | 3499.98                        | 3529.98                   |                        |             |
| 40              | QPSK       | 1       | 1         | 15.98                    | 15.89                          | 15.97                     |                        |             |
| Channel         |            |         |           | 631000                   | 633332                         | 635666                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                     | 3499.98                        | 3534.99                   | 17.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 16.24                    | 15.90                          | 15.91                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 630334                   | 633332                         | 635932                    |                        |             |
| Frequency (MHz) |            |         |           | 3462.51                  | 3499.98                        | 3537.48                   |                        |             |
| 25              | QPSK       | 1       | 1         | 16.11                    | 15.95                          | 15.92                     |                        |             |
| Channel         |            |         |           | 630668                   | 633332                         | 636000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                  | 3499.98                        | 3540                      | 17.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 16.03                    | 16.09                          | 15.90                     | 17.0                   | 0.0         |
| Channel         |            |         |           | 630000                   | 633332                         | 636166                    |                        |             |
| Frequency (MHz) |            |         |           | 3457.5                   | 3499.98                        | 3542.49                   |                        |             |
| 15              | QPSK       | 1       | 1         | 16.24                    | 15.87                          | 15.88                     |                        |             |
| Channel         |            |         |           | 630334                   | 633332                         | 636332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3455.01                  | 3499.98                        | 3544.98                   | 17.0                   | 0.0         |
| 10              | PI2 BPSK   | 1       | 1         | 15.98                    | 16.02                          | 15.91                     | 17.0                   | 0.0         |

Part27Q\_n77(HPUE)\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 19.27                 |                          |                        | 20.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 19.16                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 19.16                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 19.21                 |                          |                        | 20.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        | 19.12                 |                          |                        | 20.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 19.28                 |                          |                        | 20.0                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         | 19.03                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 1         | 19.29                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 19.24                 |                          |                        | 20.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 19.17                 |                          |                        | 20.0                | 0.0      |
| 100             | QPSK       | 135     | 0         | 19.05                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 69        | 19.27                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 138       | 19.08                 |                          |                        | 20.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 19.25                 |                          |                        | 20.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 19.21                 |                          |                        | 20.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 19.24                 |                          |                        | 20.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 18.88                 |                          |                        | 20.0                | 0.0      |
| Channel         |            |         |           | 633000                | 633332                   | 633686                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 19.10                 | 19.15                    | 19.27                  | 20.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 19.11                 | 19.16                    | 19.21                  | 20.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 18.98                 | 19.21                    | 19.19                  | 20.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 19.09                 | 19.09                    | 19.13                  | 20.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3476.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 18.97                 | 19.09                    | 19.29                  | 20.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 19.02                 | 19.01                    | 19.03                  | 20.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 18.98                 | 19.01                    | 19.29                  | 20.0                | 0.0      |
| Channel         |            |         |           | 630634                | 633332                   | 635932                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.51               | 3499.98                  | 3537.48                |                     |          |
| 25              | QPSK       | 1       | 1         | 18.85                 | 19.00                    | 19.05                  | 20.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 18.91                 | 18.98                    | 19.26                  | 20.0                | 0.0      |
| Channel         |            |         |           | 630200                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 19.10                 | 19.18                    | 19.00                  | 20.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 19.04                 | 19.96                    | 19.07                  | 20.0                | 0.0      |

Part27O\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 650000                | 650000                   | 652000                 |                     |          |
| Frequency (MHz) |            |         |           | 3750                  | 3750                     | 3750                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 16.87                 | 15.90                    | 16.84                  | 17.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 16.19                 | 16.14                    | 15.96                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 15.94                 | 16.20                    | 16.19                  |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 16.12                 | 16.19                    | 15.90                  | 17.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        | 15.88                 | 16.04                    | 16.08                  | 17.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 16.00                 | 16.16                    | 16.02                  | 17.0                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         | 16.22                 | 16.25                    | 15.92                  |                     |          |
| 100             | QPSK       | 1       | 1         | 16.17                 | 16.25                    | 16.20                  |                     |          |
| 100             | QPSK       | 1       | 137       | 16.04                 | 16.09                    | 15.74                  | 17.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 16.06                 | 16.24                    | 15.93                  | 17.0                | 0.0      |
| 100             | QPSK       | 135     | 0         | 15.82                 | 16.21                    | 16.00                  |                     |          |
| 100             | QPSK       | 135     | 69        | 16.15                 | 16.23                    | 16.17                  |                     |          |
| 100             | QPSK       | 135     | 138       | 16.14                 | 16.17                    | 16.06                  | 17.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 16.08                 | 16.21                    | 16.10                  | 17.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 16.15                 | 16.24                    | 15.87                  | 17.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 15.86                 | 16.22                    | 16.00                  | 17.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 15.80                 | 16.07                    | 16.04                  | 17.0                | 0.0      |
| Channel         |            |         |           | 649668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3745.09               | 3840                     | 3934.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 16.18                 | 15.99                    | 16.10                  | 17.0                | 0.0      |
| Channel         |            |         |           | 649334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 15.90                 | 16.12                    | 16.07                  | 17.0                | 0.0      |
| Channel         |            |         |           | 649000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |
| 70              | QPSK       | 1       | 1         | 16.11                 | 16.01                    | 16.10                  | 17.0                | 0.0      |
| Channel         |            |         |           | 648668                | 650000                   | 653332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 16.13                 | 15.98                    | 15.95                  | 17.0                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 653666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 16.16                 | 16.03                    | 16.01                  | 17.0                | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 654000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40              | QPSK       | 1       | 1         | 16.04                 | 16.13                    | 16.14                  | 17.0                | 0.0      |
| Channel         |            |         |           | 647668                | 650000                   | 654332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 16.23                 | 15.99                    | 16.22                  | 17.0                | 0.0      |
| Channel         |            |         |           | 647300                | 650000                   | 654500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |
| 25              | QPSK       | 1       | 1         | 16.01                 | 16.17                    | 15.99                  | 17.0                | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 654666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 16.15                 | 15.97                    | 16.16                  | 17.0                | 0.0      |
| Channel         |            |         |           | 647168                | 650000                   | 654832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 16.15                 | 16.18                    | 15.95                  | 17.0                | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 655000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 16.15                 | 16.11                    | 15.87                  | 17.0                | 0.0      |

Part27O\_n77(HPUE)\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 650000                | 656000                   | 662000                 |                     |          |
| Frequency (MHz) |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 18.88                 | 19.09                    | 19.08                  | 20.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       | 19.06                 | 19.17                    | 19.12                  |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 18.92                 | 19.18                    | 19.01                  |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 18.79                 | 19.07                    | 19.03                  | 20.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        | 18.84                 | 19.14                    | 19.05                  | 20.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 18.81                 | 19.08                    | 18.69                  | 20.0                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         | 18.81                 | 19.15                    | 18.77                  |                     |          |
| 100             | QPSK       | 1       | 1         | 19.16                 | 19.22                    | 19.15                  |                     |          |
| 100             | QPSK       | 1       | 137       | 18.96                 | 19.03                    | 19.04                  | 20.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 19.02                 | 19.17                    | 18.92                  | 20.0                | 0.0      |
| 100             | QPSK       | 135     | 0         | 18.97                 | 19.07                    | 18.86                  |                     |          |
| 100             | QPSK       | 135     | 69        | 19.14                 | 19.20                    | 19.12                  |                     |          |
| 100             | QPSK       | 135     | 138       | 18.73                 | 19.15                    | 18.70                  | 20.0                | 0.0      |
| 100             | QPSK       | 270     | 0         | 18.79                 | 19.18                    | 19.06                  | 20.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 19.04                 | 18.87                    | 18.99                  | 20.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 18.80                 | 18.81                    | 18.75                  | 20.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 18.86                 | 19.00                    | 18.90                  | 20.0                | 0.0      |
| Channel         |            |         |           | 649668                | 650000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3745.02               | 3840                     | 3934.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 19.12                 | 19.11                    | 19.21                  | 20.0                | 0.0      |
| Channel         |            |         |           | 649334                | 650000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 19.03                 | 19.03                    | 19.02                  | 20.0                | 0.0      |
| Channel         |            |         |           | 649000                | 650000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3840                     | 3945                   |                     |          |
| 70              | QPSK       | 1       | 1         | 19.11                 | 18.94                    | 19.10                  | 20.0                | 0.0      |
| Channel         |            |         |           | 648668                | 650000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |
| 60              | QPSK       | 1       | 1         | 19.02                 | 19.20                    | 19.01                  | 20.0                | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 19.09                 | 19.01                    | 19.02                  | 20.0                | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40              | QPSK       | 1       | 1         | 19.12                 | 19.16                    | 18.94                  | 20.0                | 0.0      |
| Channel         |            |         |           | 647668                | 650000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 19.12                 | 19.01                    | 19.18                  | 20.0                | 0.0      |
| Channel         |            |         |           | 647500                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3712.12               | 3840                     | 3967.52                |                     |          |
| 25              | QPSK       | 1       | 1         | 19.11                 | 19.18                    | 19.21                  | 20.0                | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |
| 20              | QPSK       | 1       | 1         | 19.20                 | 19.14                    | 19.03                  | 20.0                | 0.0      |
| Channel         |            |         |           | 647168                | 650000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3707.32               | 3840                     | 3972.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 19.09                 | 19.02                    | 19.16                  | 20.0                | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 19.21                 | 19.08                    | 18.99                  | 20.0                | 0.0      |



Part27Q\_n78\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         |                       | 15.82                    |                        | 17.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       |                       | 16.03                    |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       |                       | 16.21                    |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 0         |                       | 16.24                    |                        | 17.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        |                       | 16.17                    |                        | 17.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       |                       | 16.05                    |                        | 17.0                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         |                       | 16.20                    |                        | 17.0                | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 16.27                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 15.93                    |                        |                     |          |
| 100             | QPSK       | 1       | 271       |                       | 16.07                    |                        | 17.0                | 0.0      |
| 100             | QPSK       | 135     | 0         |                       | 16.20                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 16.25                    |                        |                     |          |
| 100             | QPSK       | 135     | 138       |                       | 16.10                    |                        | 17.0                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 16.23                    |                        | 17.0                | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 16.25                    |                        | 17.0                | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 16.20                    |                        | 17.0                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 16.02                    |                        | 17.0                | 0.0      |
| Channel         |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3500.01                  | 3505.02                | 17.0                | 0.0      |
| 90              | QPSK       | 1       | 1         | 16.25                 | 16.10                    | 16.24                  | 17.0                | 0.0      |
| Channel         |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3500.01                  | 3510                   | 17.0                | 0.0      |
| 80              | QPSK       | 1       | 1         | 16.01                 | 15.85                    | 16.23                  | 17.0                | 0.0      |
| Channel         |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3500.01                  | 3515.01                | 17.0                | 0.0      |
| 70              | QPSK       | 1       | 1         | 16.03                 | 15.89                    | 16.13                  | 17.0                | 0.0      |
| Channel         |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3500.01                  | 3520.02                | 17.0                | 0.0      |
| 60              | QPSK       | 1       | 1         | 16.24                 | 16.14                    | 16.03                  | 17.0                | 0.0      |
| Channel         |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3500.01                  | 3525                   | 17.0                | 0.0      |
| 50              | QPSK       | 1       | 1         | 16.11                 | 16.09                    | 16.24                  | 17.0                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 17.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 16.19                 | 16.02                    | 15.97                  | 17.0                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                | 17.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 16.17                 | 15.98                    | 16.10                  | 17.0                | 0.0      |
| Channel         |            |         |           | 630734                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.48                | 17.0                | 0.0      |
| 25              | QPSK       | 1       | 1         | 16.09                 | 16.04                    | 16.23                  | 17.0                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   | 17.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 16.09                 | 16.09                    | 16.21                  | 17.0                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 17.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 16.15                 | 16.11                    | 16.13                  | 17.0                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 17.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 1         | 15.99                 | 16.10                    | 16.19                  | 17.0                | 0.0      |

Part27O\_n78\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------|----------|
| Channel         |            |         |           | 650000                |                          |                        |               |          |
| Frequency (MHz) |            |         |           | 3750                  |                          |                        |               |          |
| 100             | PI2 BPSK   | 1       | 1         |                       | 15.85                    |                        | 17.0          | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       |                       | 15.86                    |                        |               |          |
| 100             | PI2 BPSK   | 1       | 271       |                       | 16.13                    |                        |               |          |
| 100             | PI2 BPSK   | 135     | 0         |                       | 15.98                    |                        | 17.0          | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        |                       | 16.13                    |                        | 17.0          | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       |                       | 16.11                    |                        | 17.0          | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         |                       | 16.05                    |                        | 17.0          | 0.0      |
| 100             | QPSK       | 1       | 1         |                       | 16.23                    |                        |               |          |
| 100             | QPSK       | 1       | 137       |                       | 16.19                    |                        |               |          |
| 100             | QPSK       | 1       | 271       |                       | 16.13                    |                        | 17.0          | 0.0      |
| 100             | QPSK       | 135     | 0         |                       | 15.82                    |                        |               |          |
| 100             | QPSK       | 135     | 69        |                       | 16.21                    |                        |               |          |
| 100             | QPSK       | 135     | 138       |                       | 15.99                    |                        | 17.0          | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 16.18                    |                        | 17.0          | 0.0      |
| 100             | 16QAM      | 1       | 1         |                       | 15.76                    |                        | 17.0          | 0.0      |
| 100             | 64QAM      | 1       | 1         |                       | 15.73                    |                        | 17.0          | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 15.94                    |                        | 17.0          | 0.0      |
| Channel         |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3745.02               | 3750                     | 3754.98                | 17.0          | 0.0      |
| 90              | QPSK       | 1       | 1         | 16.21                 | 16.22                    | 16.09                  | 17.0          | 0.0      |
| Channel         |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01               | 3750                     | 3759.99                | 17.0          | 0.0      |
| 80              | QPSK       | 1       | 1         | 16.09                 | 16.10                    | 15.86                  | 17.0          | 0.0      |
| Channel         |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                  | 3750                     | 3765                   | 17.0          | 0.0      |
| 70              | QPSK       | 1       | 1         | 16.16                 | 16.23                    | 16.11                  | 17.0          | 0.0      |
| Channel         |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02               | 3750                     | 3769.98                | 17.0          | 0.0      |
| 60              | QPSK       | 1       | 1         | 16.19                 | 15.98                    | 15.89                  | 17.0          | 0.0      |
| Channel         |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01               | 3750                     | 3774.99                | 17.0          | 0.0      |
| 50              | QPSK       | 1       | 1         | 16.03                 | 16.21                    | 16.16                  | 17.0          | 0.0      |
| Channel         |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                  | 3750                     | 3780                   | 17.0          | 0.0      |
| 40              | QPSK       | 1       | 1         | 16.02                 | 15.98                    | 16.03                  | 17.0          | 0.0      |
| Channel         |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02               | 3750                     | 3784.98                | 17.0          | 0.0      |
| 30              | QPSK       | 1       | 1         | 16.02                 | 16.17                    | 16.00                  | 17.0          | 0.0      |
| Channel         |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3712.5                | 3750                     | 3787.5                 | 17.0          | 0.0      |
| 25              | QPSK       | 1       | 1         | 16.16                 | 16.17                    | 16.11                  | 17.0          | 0.0      |
| Channel         |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01               | 3750                     | 3789.99                | 17.0          | 0.0      |
| 20              | QPSK       | 1       | 1         | 15.96                 | 16.02                    | 15.92                  | 17.0          | 0.0      |
| Channel         |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3707.52               | 3750                     | 3792.48                | 17.0          | 0.0      |
| 15              | QPSK       | 1       | 1         | 15.94                 | 15.97                    | 16.16                  | 17.0          | 0.0      |
| Channel         |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit | MPR (dB) |
| Frequency (MHz) |            |         |           | 3705                  | 3750                     | 3795                   | 17.0          | 0.0      |
| 10              | PI2 BPSK   | 1       | 1         | 16.09                 | 16.01                    | 16.12                  | 17.0          | 0.0      |

Part27Q\_n77\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         |                       | 17.48                    |                        | 18.5                | 0.0      |
| 100             | PI2 BPSK   | 1       | 137       |                       | 17.38                    |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       |                       | 17.51                    |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 0         |                       | 17.46                    |                        | 18.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        |                       | 17.36                    |                        | 18.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       |                       | 17.41                    |                        | 18.5                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         |                       | 17.37                    |                        |                     |          |
| 100             | QPSK       | 1       | 1         |                       | 17.53                    |                        |                     |          |
| 100             | QPSK       | 1       | 137       |                       | 17.41                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 1       | 271       |                       | 17.46                    |                        |                     |          |
| 100             | QPSK       | 135     | 0         |                       | 17.43                    |                        |                     |          |
| 100             | QPSK       | 135     | 69        |                       | 17.51                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 135     | 138       |                       | 17.37                    |                        | 18.5                | 0.0      |
| 100             | QPSK       | 270     | 0         |                       | 17.49                    |                        |                     |          |
| 100             | 16QAM      | 1       | 1         |                       | 17.30                    |                        |                     |          |
| 100             | 64QAM      | 1       | 1         |                       | 17.23                    |                        | 18.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         |                       | 17.36                    |                        | 18.5                | 0.0      |
| Channel         |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                | 18.5                | 0.0      |
| 90              | QPSK       | 1       | 1         | 17.44                 | 17.47                    | 17.32                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   | 18.5                | 0.0      |
| 80              | QPSK       | 1       | 1         | 17.48                 | 17.41                    | 17.05                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 18.5                | 0.0      |
| 70              | QPSK       | 1       | 1         | 17.32                 | 17.46                    | 17.29                  | 18.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3519.99                | 18.5                | 0.0      |
| 60              | QPSK       | 1       | 1         | 17.20                 | 17.28                    | 17.06                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   | 18.5                | 0.0      |
| 50              | QPSK       | 1       | 1         | 17.25                 | 17.25                    | 17.29                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 18.5                | 0.0      |
| 40              | QPSK       | 1       | 1         | 17.26                 | 17.53                    | 17.30                  | 18.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                | 18.5                | 0.0      |
| 30              | QPSK       | 1       | 1         | 17.38                 | 17.38                    | 17.38                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 635998                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.01               | 3499.98                  | 3539.98                | 18.5                | 0.0      |
| 25              | QPSK       | 1       | 1         | 17.44                 | 17.48                    | 17.19                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   | 18.5                | 0.0      |
| 20              | QPSK       | 1       | 1         | 17.51                 | 17.45                    | 17.19                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 18.5                | 0.0      |
| 15              | QPSK       | 1       | 1         | 17.23                 | 17.32                    | 17.06                  | 18.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 18.5                | 0.0      |
| 10              | PI2 BPSK   | 1       | 1         | 17.25                 | 17.46                    | 17.12                  | 18.5                | 0.0      |



| Part27Q_n77(HPUe)_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                 |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |
| 100                     | Pi2 BPSK   | 1       | 1         | 20.31                 |                          |                        | 21.5                | 0.0      |
| 100                     | Pi2 BPSK   | 1       | 137       | 20.20                 |                          |                        |                     |          |
| 100                     | Pi2 BPSK   | 1       | 271       | 20.27                 |                          |                        |                     |          |
| 100                     | Pi2 BPSK   | 135     | 0         | 20.35                 |                          |                        | 21.5                | 0.0      |
| 100                     | Pi2 BPSK   | 135     | 69        | 20.18                 |                          |                        | 21.5                | 0.0      |
| 100                     | Pi2 BPSK   | 135     | 138       | 20.03                 |                          |                        | 21.5                | 0.0      |
| 100                     | Pi2 BPSK   | 270     | 0         | 20.21                 |                          |                        |                     |          |
| 100                     | QPSK       | 1       | 1         | 20.36                 |                          |                        |                     |          |
| 100                     | QPSK       | 1       | 137       | 20.25                 |                          |                        | 21.5                | 0.0      |
| 100                     | QPSK       | 1       | 271       | 20.34                 |                          |                        |                     |          |
| 100                     | QPSK       | 135     | 0         | 20.18                 |                          |                        |                     |          |
| 100                     | QPSK       | 135     | 69        | 20.34                 |                          |                        | 21.5                | 0.0      |
| 100                     | QPSK       | 135     | 138       | 20.31                 |                          |                        |                     |          |
| 100                     | QPSK       | 270     | 0         | 20.32                 |                          |                        | 21.5                | 0.0      |
| 100                     | 16QAM      | 1       | 1         | 20.04                 |                          |                        | 21.5                | 0.0      |
| 100                     | 64QAM      | 1       | 1         | 20.22                 |                          |                        | 21.5                | 0.0      |
| 100                     | 256QAM     | 1       | 1         | 20.21                 |                          |                        | 21.5                | 0.0      |
| Channel                 |            |         |           | 633009                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3405                  | 3499.98                  | 3504.99                |                     |          |
| 90                      | QPSK       | 1       | 1         | 20.25                 | 20.30                    | 20.32                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 632968                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80                      | QPSK       | 1       | 1         | 20.31                 | 20.04                    | 20.20                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3405.01               | 3499.98                  | 3514.98                |                     |          |
| 70                      | QPSK       | 1       | 1         | 20.21                 | 20.05                    | 20.23                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60                      | QPSK       | 1       | 1         | 20.28                 | 20.15                    | 20.05                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50                      | QPSK       | 1       | 1         | 20.18                 | 20.14                    | 20.16                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40                      | QPSK       | 1       | 1         | 20.12                 | 20.27                    | 20.22                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3405                  | 3499.98                  | 3534.99                |                     |          |
| 30                      | QPSK       | 1       | 1         | 20.26                 | 20.22                    | 20.31                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 630634                | 633332                   | 635932                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3482.51               | 3499.98                  | 3537.48                |                     |          |
| 25                      | QPSK       | 1       | 1         | 20.10                 | 20.09                    | 20.13                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3480.02               | 3499.98                  | 3540                   |                     |          |
| 20                      | QPSK       | 1       | 1         | 20.29                 | 20.04                    | 20.13                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15                      | QPSK       | 1       | 1         | 19.98                 | 20.31                    | 20.21                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10                      | Pi2 BPSK   | 1       | 1         | 20.02                 | 20.25                    | 20.29                  | 21.5                | 0.0      |

| Part27O_n77_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 650000                | 656000                   | 662000                 |                     |          |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3900                   |                     |          |
| 100               | Pi2 BPSK   | 1       | 1         | 17.12                 | 17.17                    | 17.12                  |                     |          |
| 100               | Pi2 BPSK   | 1       | 137       | 17.33                 | 17.38                    | 17.27                  | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 1       | 271       | 17.45                 | 17.47                    | 17.44                  |                     |          |
| 100               | Pi2 BPSK   | 135     | 0         | 17.21                 | 17.29                    | 17.21                  | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 135     | 69        | 17.35                 | 17.36                    | 17.27                  | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 135     | 138       | 17.25                 | 17.33                    | 17.20                  |                     |          |
| 100               | Pi2 BPSK   | 270     | 0         | 17.30                 | 17.33                    | 17.25                  | 18.5                | 0.0      |
| 100               | QPSK       | 1       | 1         | 17.40                 | 17.51                    | 17.38                  |                     |          |
| 100               | QPSK       | 1       | 137       | 17.33                 | 17.39                    | 17.31                  | 18.5                | 0.0      |
| 100               | QPSK       | 1       | 271       | 17.22                 | 17.28                    | 17.22                  |                     |          |
| 100               | QPSK       | 135     | 0         | 17.19                 | 17.29                    | 17.19                  |                     |          |
| 100               | QPSK       | 135     | 69        | 17.40                 | 17.48                    | 17.34                  | 18.5                | 0.0      |
| 100               | QPSK       | 135     | 138       | 17.27                 | 17.37                    | 17.28                  |                     |          |
| 100               | QPSK       | 270     | 0         | 17.21                 | 17.45                    | 17.26                  | 18.5                | 0.0      |
| 100               | 16QAM      | 1       | 1         | 16.88                 | 17.07                    | 17.00                  | 18.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 17.18                 | 17.26                    | 17.15                  | 18.5                | 0.0      |
| 100               | 256QAM     | 1       | 1         | 17.38                 | 17.42                    | 17.42                  | 18.5                | 0.0      |
| Channel           |            |         |           | 646668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3924.98                |                     |          |
| 90                | QPSK       | 1       | 1         | 17.41                 | 17.41                    | 17.31                  | 18.5                | 0.0      |
| Channel           |            |         |           | 646334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |
| 80                | QPSK       | 1       | 1         | 17.31                 | 17.38                    | 17.35                  | 18.5                | 0.0      |
| Channel           |            |         |           | 646000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3945                   |                     |          |
| 70                | QPSK       | 1       | 1         | 17.42                 | 17.39                    | 17.36                  | 18.5                | 0.0      |
| Channel           |            |         |           | 645668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |
| 60                | QPSK       | 1       | 1         | 17.38                 | 17.48                    | 17.32                  | 18.5                | 0.0      |
| Channel           |            |         |           | 646334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |
| 50                | QPSK       | 1       | 1         | 17.36                 | 17.45                    | 17.30                  | 18.5                | 0.0      |
| Channel           |            |         |           | 646000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40                | QPSK       | 1       | 1         | 17.41                 | 17.41                    | 17.31                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30                | QPSK       | 1       | 1         | 17.31                 | 17.50                    | 17.32                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647500                | 656000                   | 664500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |
| 25                | QPSK       | 1       | 1         | 17.35                 | 17.45                    | 17.28                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |
| 20                | QPSK       | 1       | 1         | 17.23                 | 17.40                    | 17.33                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |
| 15                | QPSK       | 1       | 1         | 17.38                 | 17.42                    | 17.27                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10                | Pi2 BPSK   | 1       | 1         | 17.42                 | 17.49                    | 17.33                  | 18.5                | 0.0      |

| Part27O_n77(HPUE)_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel                 |            |         |           | 650000                | 656000                   | 662000                 |                     |          |
| Frequency (MHz)         |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |
| 100                     | Pi2 BPSK   | 1       | 1         | 20.01                 | 20.04                    | 19.74                  | 21.5                | 0.0      |
| 100                     | Pi2 BPSK   | 1       | 137       | 19.94                 | 20.04                    | 19.86                  |                     |          |
| 100                     | Pi2 BPSK   | 1       | 271       | 19.75                 | 19.81                    | 19.83                  |                     |          |
| 100                     | Pi2 BPSK   | 135     | 0         | 20.07                 | 20.01                    | 20.03                  | 21.5                | 0.0      |
| 100                     | Pi2 BPSK   | 135     | 69        | 19.79                 | 20.00                    | 20.04                  | 21.5                | 0.0      |
| 100                     | Pi2 BPSK   | 135     | 138       | 19.93                 | 20.00                    | 19.91                  | 21.5                | 0.0      |
| 100                     | Pi2 BPSK   | 270     | 0         | 19.78                 | 19.83                    | 19.84                  | 21.5                | 0.0      |
| 100                     | QPSK       | 1       | 1         | 20.04                 | 20.12                    | 19.95                  |                     |          |
| 100                     | QPSK       | 1       | 137       | 19.96                 | 19.91                    | 19.89                  | 21.5                | 0.0      |
| 100                     | QPSK       | 1       | 271       | 19.76                 | 19.72                    | 19.80                  |                     |          |
| 100                     | QPSK       | 135     | 0         | 20.01                 | 20.10                    | 19.91                  |                     |          |
| 100                     | QPSK       | 135     | 69        | 19.81                 | 20.03                    | 19.87                  | 21.5                | 0.0      |
| 100                     | QPSK       | 135     | 138       | 19.89                 | 19.76                    | 19.84                  |                     |          |
| 100                     | QPSK       | 270     | 0         | 20.04                 | 20.08                    | 19.94                  | 21.5                | 0.0      |
| 100                     | 16QAM      | 1       | 1         | 20.00                 | 19.96                    | 20.05                  | 21.5                | 0.0      |
| 100                     | 64QAM      | 1       | 1         | 19.83                 | 20.03                    | 19.82                  | 21.5                | 0.0      |
| 100                     | 256QAM     | 1       | 1         | 19.75                 | 19.78                    | 19.82                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 646668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                     | 3924.98                |                     |          |
| 90                      | QPSK       | 1       | 1         | 20.10                 | 19.95                    | 19.74                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 649334                | 656000                   | 662666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |
| 80                      | QPSK       | 1       | 1         | 19.83                 | 20.01                    | 19.80                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 646000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3725                  | 3840                     | 3945                   |                     |          |
| 70                      | QPSK       | 1       | 1         | 19.76                 | 19.88                    | 19.80                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 646668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |
| 60                      | QPSK       | 1       | 1         | 20.09                 | 19.86                    | 19.77                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 646334                | 656000                   | 663666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3725.01               | 3840                     | 3954.99                |                     |          |
| 50                      | QPSK       | 1       | 1         | 20.01                 | 19.94                    | 19.88                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 646000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |
| 40                      | QPSK       | 1       | 1         | 20.00                 | 19.97                    | 19.89                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                     | 3964.98                |                     |          |
| 30                      | QPSK       | 1       | 1         | 19.78                 | 19.90                    | 19.95                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 647500                | 656000                   | 664500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3712.5                | 3840                     | 3967.5                 |                     |          |
| 25                      | QPSK       | 1       | 1         | 19.88                 | 20.07                    | 19.78                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 647334                | 656000                   | 664666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |
| 20                      | QPSK       | 1       | 1         | 19.92                 | 20.05                    | 19.70                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |
| 15                      | QPSK       | 1       | 1         | 20.08                 | 19.88                    | 20.02                  | 21.5                | 0.0      |
| Channel                 |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)         |            |         |           | 3705                  | 3840                     | 3975                   |                     |          |
| 10                      | Pi2 BPSK   | 1       | 1         | 20.04                 | 19.93                    | 19.77                  | 21.5                | 0.0      |



| Part27Q_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 1       | 1         | 16.85                 |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 1       | 137       | 16.91                 |                          |                        | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 1       | 271       | 17.11                 |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 135     | 0         | 16.99                 |                          |                        | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 135     | 69        | 16.94                 |                          |                        | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 135     | 138       | 16.92                 |                          |                        | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 270     | 0         | 16.99                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 1         | 17.16                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 137       | 16.97                 |                          |                        | 18.5                | 0.0      |
| 100               | QPSK       | 1       | 271       | 16.96                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 0         | 17.04                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 69        | 17.14                 |                          |                        | 18.5                | 0.0      |
| 100               | QPSK       | 135     | 138       | 16.96                 |                          |                        |                     |          |
| 100               | QPSK       | 270     | 0         | 17.11                 |                          |                        | 18.5                | 0.0      |
| 100               | 16QAM      | 1       | 1         | 16.88                 |                          |                        | 18.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 16.82                 |                          |                        | 18.5                | 0.0      |
| 100               | 256QAM     | 1       | 1         | 16.87                 |                          |                        | 18.5                | 0.0      |
| Channel           |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3495                  | 3500.01                  | 3505.02                |                     |          |
| 90                | QPSK       | 1       | 1         | 17.20                 | 17.11                    | 17.12                  | 18.5                | 0.0      |
| Channel           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3490.02               | 3500.01                  | 3510                   |                     |          |
| 80                | QPSK       | 1       | 1         | 16.88                 | 17.06                    | 16.96                  | 18.5                | 0.0      |
| Channel           |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3485.01               | 3500.01                  | 3515.01                |                     |          |
| 70                | QPSK       | 1       | 1         | 16.72                 | 16.85                    | 17.10                  | 18.5                | 0.0      |
| Channel           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3480                  | 3500.01                  | 3520.02                |                     |          |
| 60                | QPSK       | 1       | 1         | 16.78                 | 16.83                    | 17.10                  | 18.5                | 0.0      |
| Channel           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3475.02               | 3500.01                  | 3525                   |                     |          |
| 50                | QPSK       | 1       | 1         | 16.67                 | 17.11                    | 16.91                  | 18.5                | 0.0      |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40                | QPSK       | 1       | 1         | 17.04                 | 17.00                    | 16.89                  | 18.5                | 0.0      |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30                | QPSK       | 1       | 1         | 16.94                 | 16.83                    | 17.14                  | 18.5                | 0.0      |
| Channel           |            |         |           | 630634                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3460.51               | 3499.98                  | 3537.48                |                     |          |
| 25                | QPSK       | 1       | 1         | 17.07                 | 16.92                    | 16.87                  | 18.5                | 0.0      |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20                | QPSK       | 1       | 1         | 16.99                 | 17.12                    | 16.97                  | 18.5                | 0.0      |
| Channel           |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15                | QPSK       | 1       | 1         | 16.96                 | 17.15                    | 16.92                  | 18.5                | 0.0      |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10                | Pi2 BPSK   | 1       | 1         | 17.01                 | 17.05                    | 17.06                  | 18.5                | 0.0      |

| Part27O_n78_Ant 7 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 650000                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3750                  |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 1       | 1         | 16.87                 |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 1       | 137       | 17.18                 |                          |                        | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 1       | 271       | 17.27                 |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 135     | 0         | 17.09                 |                          |                        | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 135     | 69        | 17.16                 |                          |                        | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 135     | 138       | 17.13                 |                          |                        | 18.5                | 0.0      |
| 100               | Pi2 BPSK   | 270     | 0         | 17.15                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 1         | 17.31                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 137       | 17.19                 |                          |                        | 18.5                | 0.0      |
| 100               | QPSK       | 1       | 271       | 17.08                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 0         | 17.09                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 69        | 17.22                 |                          |                        | 18.5                | 0.0      |
| 100               | QPSK       | 135     | 138       | 17.17                 |                          |                        |                     |          |
| 100               | QPSK       | 270     | 0         | 17.17                 |                          |                        | 18.5                | 0.0      |
| 100               | 16QAM      | 1       | 1         | 16.87                 |                          |                        | 18.5                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 17.06                 |                          |                        | 18.5                | 0.0      |
| 100               | 256QAM     | 1       | 1         | 17.22                 |                          |                        | 18.5                | 0.0      |
| Channel           |            |         |           | 649688                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |
| 90                | QPSK       | 1       | 1         | 17.24                 | 17.19                    | 17.23                  | 18.5                | 0.0      |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |
| 80                | QPSK       | 1       | 1         | 17.20                 | 17.20                    | 17.11                  | 18.5                | 0.0      |
| Channel           |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |
| 70                | QPSK       | 1       | 1         | 16.99                 | 16.93                    | 17.28                  | 18.5                | 0.0      |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3769.98                |                     |          |
| 60                | QPSK       | 1       | 1         | 17.19                 | 17.12                    | 17.17                  | 18.5                | 0.0      |
| Channel           |            |         |           | 648334                | 650000                   | 651668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3764.99                |                     |          |
| 50                | QPSK       | 1       | 1         | 17.24                 | 17.08                    | 17.28                  | 18.5                | 0.0      |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   |                     |          |
| 40                | QPSK       | 1       | 1         | 17.26                 | 16.97                    | 17.25                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                |                     |          |
| 30                | QPSK       | 1       | 1         | 17.19                 | 17.12                    | 17.27                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3712.5                | 3750                     | 3787.5                 |                     |          |
| 25                | QPSK       | 1       | 1         | 17.21                 | 16.91                    | 17.23                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647334                | 650000                   | 652668                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                |                     |          |
| 20                | QPSK       | 1       | 1         | 17.25                 | 17.02                    | 17.05                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                |                     |          |
| 15                | QPSK       | 1       | 1         | 17.23                 | 17.10                    | 17.25                  | 18.5                | 0.0      |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   |                     |          |
| 10                | Pi2 BPSK   | 1       | 1         | 17.27                 | 17.10                    | 17.21                  | 18.5                | 0.0      |

| Part27Q_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel           |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz)   |            |         |           | 3499.98               |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 1       | 1         | 16.09                 |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 1       | 137       | 16.21                 |                          |                        | 17.0                | 0.0      |
| 100               | Pi2 BPSK   | 1       | 271       | 16.17                 |                          |                        |                     |          |
| 100               | Pi2 BPSK   | 135     | 0         | 16.22                 |                          |                        | 17.0                | 0.0      |
| 100               | Pi2 BPSK   | 135     | 69        | 16.27                 |                          |                        | 17.0                | 0.0      |
| 100               | Pi2 BPSK   | 135     | 138       | 15.97                 |                          |                        | 17.0                | 0.0      |
| 100               | Pi2 BPSK   | 270     | 0         | 16.27                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 1         | 16.45                 |                          |                        |                     |          |
| 100               | QPSK       | 1       | 137       | 16.30                 |                          |                        | 17.0                | 0.0      |
| 100               | QPSK       | 1       | 271       | 16.29                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 0         | 16.33                 |                          |                        |                     |          |
| 100               | QPSK       | 135     | 69        | 16.45                 |                          |                        | 17.0                | 0.0      |
| 100               | QPSK       | 135     | 138       | 16.40                 |                          |                        |                     |          |
| 100               | QPSK       | 270     | 0         | 16.43                 |                          |                        | 17.0                | 0.0      |
| 100               | 16QAM      | 1       | 1         | 16.36                 |                          |                        | 17.0                | 0.0      |
| 100               | 64QAM      | 1       | 1         | 16.20                 |                          |                        | 17.0                | 0.0      |
| 100               | 256QAM     | 1       | 1         | 16.40                 |                          |                        | 17.0                | 0.0      |
| Channel           |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90                | QPSK       | 1       | 1         | 16.34                 | 16.37                    | 16.25                  | 17.0                | 0.0      |
| Channel           |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80                | QPSK       | 1       | 1         | 16.25                 | 16.18                    | 16.29                  | 17.0                | 0.0      |
| Channel           |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3485.01               | 3499.98                  | 3514.99                |                     |          |
| 70                | QPSK       | 1       | 1         | 16.39                 | 16.34                    | 16.03                  | 17.0                | 0.0      |
| Channel           |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3480                  | 3499.98                  | 3519.99                |                     |          |
| 60                | QPSK       | 1       | 1         | 16.37                 | 16.30                    | 16.24                  | 17.0                | 0.0      |
| Channel           |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50                | QPSK       | 1       | 1         | 16.30                 | 16.10                    | 16.00                  | 17.0                | 0.0      |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                |                     |          |
| 40                | QPSK       | 1       | 1         | 16.27                 | 16.33                    | 16.13                  | 17.0                | 0.0      |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30                | QPSK       | 1       | 1         | 16.14                 | 16.20                    | 16.01                  | 17.0                | 0.0      |
| Channel           |            |         |           | 630634                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3462.51               | 3499.98                  | 3537.48                |                     |          |
| 25                | QPSK       | 1       | 1         | 16.09                 | 16.21                    | 16.04                  | 17.0                | 0.0      |
| Channel           |            |         |           | 630368                | 633332                   | 636100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20                | QPSK       | 1       | 1         | 16.38                 | 16.30                    | 16.17                  | 17.0                | 0.0      |
| Channel           |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15                | QPSK       | 1       | 1         | 16.17                 | 16.27                    | 16.31                  | 17.0                | 0.0      |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.99                |                     |          |
| 10                | Pi2 BPSK   | 1       | 1         | 16.40                 | 16.31                    | 16.08                  | 17.0                | 0.0      |



| Part27Q_n77(HPUE)_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332                |                          |                        | 20.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 19.98                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       | 19.10                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       | 18.99                 |                          |                        |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         | 19.10                 |                          |                        | 20.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 69        | 19.20                 |                          |                        | 20.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 135     | 138       | 18.91                 |                          |                        | 20.0                | 0.0      |  |
| 100                     | PI2 BPSK   | 270     | 0         | 19.20                 |                          |                        | 20.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 1         | 19.36                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 19.16                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 19.18                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 19.14                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 19.36                 |                          |                        | 20.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       | 19.21                 |                          |                        | 20.0                | 0.0      |  |
| 100                     | QPSK       | 270     | 0         | 19.27                 |                          |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 19.31                 |                          |                        |                     |          |  |
| 100                     | 64QAM      | 1       | 1         | 19.20                 |                          |                        | 20.0                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         | 19.19                 |                          |                        | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3405                  | 3499.98                  | 3504.98                | 20.0                | 0.0      |  |
| 90                      | QPSK       | 1       | 1         | 19.21                 | 19.34                    | 19.29                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   | 20.0                | 0.0      |  |
| 80                      | QPSK       | 1       | 1         | 19.10                 | 19.11                    | 19.04                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                | 20.0                | 0.0      |  |
| 70                      | QPSK       | 1       | 1         | 19.09                 | 19.14                    | 19.20                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3480                  | 3499.98                  | 3519.98                | 20.0                | 0.0      |  |
| 60                      | QPSK       | 1       | 1         | 19.28                 | 19.10                    | 19.15                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3472.02               | 3499.98                  | 3525                   | 20.0                | 0.0      |  |
| 50                      | QPSK       | 1       | 1         | 19.25                 | 19.36                    | 19.11                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                | 20.0                | 0.0      |  |
| 40                      | QPSK       | 1       | 1         | 19.08                 | 19.30                    | 19.28                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.98                | 20.0                | 0.0      |  |
| 30                      | QPSK       | 1       | 1         | 19.06                 | 19.16                    | 19.21                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 630334                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3462.51               | 3499.98                  | 3537.48                | 20.0                | 0.0      |  |
| 25                      | QPSK       | 1       | 1         | 19.00                 | 19.37                    | 19.23                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3530                   | 20.0                | 0.0      |  |
| 20                      | QPSK       | 1       | 1         | 19.26                 | 19.11                    | 19.26                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 630500                | 633332                   | 636168                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                | 20.0                | 0.0      |  |
| 15                      | QPSK       | 1       | 1         | 19.17                 | 19.11                    | 19.05                  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                | 20.0                | 0.0      |  |
| 10                      | PI2 BPSK   | 1       | 1         | 19.07                 | 19.12                    | 19.31                  | 20.0                | 0.0      |  |

| Part27O_n77_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel           |            |         |           | 650000                | 656000                   | 662000                 | 17.0                | 0.0      |  |
| Frequency (MHz)   |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |
| 100               | PI2 BPSK   | 1       | 1         | 16.02                 | 16.17                    | 15.92                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 137       | 15.83                 | 15.99                    | 15.81                  |                     |          |  |
| 100               | PI2 BPSK   | 1       | 271       | 15.92                 | 16.11                    | 15.89                  |                     |          |  |
| 100               | PI2 BPSK   | 135     | 0         | 16.07                 | 16.10                    | 16.07                  | 17.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 69        | 15.91                 | 16.13                    | 16.00                  | 17.0                | 0.0      |  |
| 100               | PI2 BPSK   | 135     | 138       | 15.81                 | 15.99                    | 15.79                  | 17.0                | 0.0      |  |
| 100               | PI2 BPSK   | 270     | 0         | 15.70                 | 15.91                    | 15.77                  |                     |          |  |
| 100               | QPSK       | 1       | 1         | 16.10                 | 16.20                    | 16.08                  |                     |          |  |
| 100               | QPSK       | 1       | 137       | 16.02                 | 16.15                    | 15.99                  |                     |          |  |
| 100               | QPSK       | 1       | 271       | 15.92                 | 16.04                    | 15.81                  | 17.0                | 0.0      |  |
| 100               | QPSK       | 135     | 0         | 15.82                 | 16.02                    | 15.87                  |                     |          |  |
| 100               | QPSK       | 135     | 69        | 16.01                 | 16.18                    | 16.04                  |                     |          |  |
| 100               | QPSK       | 135     | 138       | 15.88                 | 16.00                    | 15.84                  |                     |          |  |
| 100               | QPSK       | 270     | 0         | 16.14                 | 16.16                    | 16.06                  | 17.0                | 0.0      |  |
| 100               | 16QAM      | 1       | 1         | 15.82                 | 16.06                    | 15.88                  | 17.0                | 0.0      |  |
| 100               | 64QAM      | 1       | 1         | 16.10                 | 16.16                    | 15.91                  | 17.0                | 0.0      |  |
| 100               | 256QAM     | 1       | 1         | 15.68                 | 16.03                    | 15.70                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 649668                | 656000                   | 662332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3745.02               | 3840                     | 3934.98                | 17.0                | 0.0      |  |
| 90                | QPSK       | 1       | 1         | 16.04                 | 16.14                    | 15.96                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 649334                | 656000                   | 662668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3740.01               | 3840                     | 3939.99                | 17.0                | 0.0      |  |
| 80                | QPSK       | 1       | 1         | 16.11                 | 16.08                    | 16.05                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 649000                | 656000                   | 663000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3735                  | 3840                     | 3945                   | 17.0                | 0.0      |  |
| 70                | QPSK       | 1       | 1         | 15.90                 | 16.10                    | 15.91                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 648668                | 656000                   | 663332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3730.02               | 3840                     | 3949.98                | 17.0                | 0.0      |  |
| 60                | QPSK       | 1       | 1         | 16.16                 | 16.06                    | 16.12                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 648334                | 656000                   | 663668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3725.01               | 3840                     | 3954.99                | 17.0                | 0.0      |  |
| 50                | QPSK       | 1       | 1         | 15.94                 | 16.00                    | 16.10                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 648000                | 656000                   | 664000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3720                  | 3840                     | 3960                   | 17.0                | 0.0      |  |
| 40                | QPSK       | 1       | 1         | 15.86                 | 15.93                    | 15.99                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 647668                | 656000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3715.02               | 3840                     | 3954.98                | 17.0                | 0.0      |  |
| 30                | QPSK       | 1       | 1         | 16.09                 | 16.01                    | 15.93                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 647330                | 656000                   | 664500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3712.5                | 3840                     | 3967.5                 | 17.0                | 0.0      |  |
| 25                | QPSK       | 1       | 1         | 16.10                 | 16.16                    | 15.94                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 647334                | 656000                   | 664668                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3710.01               | 3840                     | 3969.99                | 17.0                | 0.0      |  |
| 20                | QPSK       | 1       | 1         | 16.11                 | 16.09                    | 16.14                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 647168                | 656000                   | 664832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3707.52               | 3840                     | 3972.48                | 17.0                | 0.0      |  |
| 15                | QPSK       | 1       | 1         | 16.01                 | 16.14                    | 15.90                  | 17.0                | 0.0      |  |
| Channel           |            |         |           | 647000                | 656000                   | 665000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)   |            |         |           | 3705                  | 3840                     | 3975                   | 17.0                | 0.0      |  |
| 10                | PI2 BPSK   | 1       | 1         | 16.11                 | 16.16                    | 15.80                  | 17.0                | 0.0      |  |

| Part27O_n77(HPUE)_Ant 8 |            |         |           |                       |                          |                        |                     |          |  |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Channel                 |            |         |           | 650000                | 656000                   | 662000                 | 20.0                | 0.0      |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3750                  | 3840                     | 3930                   |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 1         | 19.81                 | 19.91                    | 19.76                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 137       | 19.78                 | 19.75                    | 19.78                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 1       | 271       | 19.76                 | 19.89                    | 19.71                  | 20.0                | 0.0      |  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 0         | 19.79                 | 19.99                    | 19.79                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 69        | 19.95                 | 19.08                    | 19.94                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 135     | 138       | 19.86                 | 19.04                    | 19.87                  |                     |          |  |                     |          |  |
| 100                     | PI2 BPSK   | 270     | 0         | 19.70                 | 19.81                    | 19.80                  | 20.0                | 0.0      |  |                     |          |  |
| 100                     | QPSK       | 1       | 1         | 19.58                 | 19.11                    | 19.07                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 1       | 137       | 19.77                 | 19.94                    | 19.84                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 19.64                 | 19.02                    | 19.83                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 19.78                 | 19.96                    | 19.73                  | 20.0                | 0.0      |  |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 19.78                 | 19.08                    | 19.73                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 135     | 138       | 19.79                 | 19.80                    | 19.72                  |                     |          |  |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 19.72                 | 19.06                    | 19.76                  |                     |          |  |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 19.62                 | 19.74                    | 19.81                  | 20.0                | 0.0      |  |                     |          |  |
| 100                     | 64QAM      | 1       | 1         | 19.63                 | 19.81                    | 19.66                  |                     |          |  |                     |          |  |
| 100                     | 256QAM     | 1       | 1         | 19.84                 | 19.79                    | 19.71                  |                     |          |  |                     |          |  |
| Channel                 |            |         |           | 650000                | 656000                   | 662000                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3745.02               | 3840                     | 3934.98                | 20.0                | 0.0      |  |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 19.82                 | 19.84                    | 19.69                  | 20.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 649334                | 659000                   | 660666                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3740.01               | 3840                     | 3939.99                |                     |          |  | 20.0                | 0.0      |  |
| 80                      | QPSK       | 1       | 1         | 19.73                 | 19.02                    | 19.98                  |                     |          |  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 649000                | 659000                   | 660000                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3735                  | 3840                     | 3945                   | 20.0                | 0.0      |  |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 19.96                 | 19.10                    | 19.86                  | 20.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 648668                | 659000                   | 663332                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3730.02               | 3840                     | 3949.98                |                     |          |  | 20.0                | 0.0      |  |
| 60                      | QPSK       | 1       | 1         | 19.64                 | 19.03                    | 19.99                  |                     |          |  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 648334                | 659000                   | 660000                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3725.01               | 3840                     | 3954.99                | 20.0                | 0.0      |  |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 19.96                 | 19.99                    | 19.91                  | 20.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 648000                | 659000                   | 664000                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3720                  | 3840                     | 3960                   |                     |          |  | 20.0                | 0.0      |  |
| 40                      | QPSK       | 1       | 1         | 19.60                 | 19.93                    | 19.91                  |                     |          |  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 647668                | 659000                   | 664332                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3715.02               | 3840                     | 3964.98                | 20.0                | 0.0      |  |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 19.75                 | 19.01                    | 19.71                  | 20.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 647334                | 659000                   | 664500                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                     | 3969.99                |                     |          |  | 20.0                | 0.0      |  |
| 25                      | QPSK       | 1       | 1         | 19.76                 | 19.83                    | 19.96                  |                     |          |  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 647000                | 659000                   | 664250                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3710.01               | 3840                     | 3969.99                | 20.0                | 0.0      |  |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 19.89                 | 19.01                    | 19.70                  | 20.0                | 0.0      |  |                     |          |  |
| Channel                 |            |         |           | 647168                | 659000                   | 664832                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3707.52               | 3840                     | 3972.48                |                     |          |  | 20.0                | 0.0      |  |
| 15                      | QPSK       | 1       | 1         | 19.80                 | 19.10                    | 19.10                  |                     |          |  | 20.0                | 0.0      |  |
| Channel                 |            |         |           | 647000                | 659000                   | 664500                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz)         |            |         |           | 3705                  | 3940                     | 3975                   | 20.0                | 0.0      |  |                     |          |  |
| 10                      | PI2 BPSK   | 1       | 1         | 19.76                 | 19.89                    | 19.90                  | 20.0                | 0.0      |  |                     |          |  |



| Part27Q_n78_Ant 8 |            |         |           |                       |                          |                        |                      |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|----------------------|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |                      |
| Channel           |            |         |           | 633332                |                          |                        | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3499.88               |                          |                        |                      |
| 100               | PI2 BPSK   | 1       | 1         | 16.02                 |                          |                        | 17.0                 |
| 100               | PI2 BPSK   | 1       | 137       | 16.16                 |                          |                        |                      |
| 100               | PI2 BPSK   | 1       | 271       | 16.09                 |                          |                        | 17.0                 |
| 100               | PI2 BPSK   | 135     | 0         | 16.22                 |                          |                        |                      |
| 100               | PI2 BPSK   | 135     | 69        | 16.14                 |                          |                        | 17.0                 |
| 100               | PI2 BPSK   | 135     | 138       | 15.97                 |                          |                        |                      |
| 100               | PI2 BPSK   | 270     | 0         | 16.22                 |                          |                        | 17.0                 |
| 100               | QPSK       | 1       | 1         | 16.40                 |                          |                        |                      |
| 100               | QPSK       | 1       | 137       | 16.27                 |                          |                        | 17.0                 |
| 100               | QPSK       | 1       | 271       | 16.19                 |                          |                        |                      |
| 100               | QPSK       | 135     | 0         | 16.28                 |                          |                        | 17.0                 |
| 100               | QPSK       | 135     | 69        | 16.38                 |                          |                        |                      |
| 100               | QPSK       | 135     | 138       | 16.31                 |                          |                        | 17.0                 |
| 100               | QPSK       | 270     | 0         | 16.34                 |                          |                        |                      |
| 100               | 16QAM      | 1       | 1         | 16.27                 |                          |                        | 17.0                 |
| 100               | 64QAM      | 1       | 1         | 16.08                 |                          |                        |                      |
| 100               | 256QAM     | 1       | 1         | 16.21                 |                          |                        | 17.0                 |
| Channel           |            |         |           | 633000                | 633334                   | 633668                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3486                  | 3500.01                  | 3505.02                | MPR (dB)             |
| 90                | QPSK       | 1       | 1         | 16.24                 | 16.39                    | 16.33                  | 17.0                 |
| Channel           |            |         |           | 632668                | 633334                   | 634000                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3480.02               | 3500.01                  | 3510                   | MPR (dB)             |
| 80                | QPSK       | 1       | 1         | 16.17                 | 16.33                    | 16.30                  | 17.0                 |
| Channel           |            |         |           | 632334                | 633334                   | 634334                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3482.01               | 3500.01                  | 3516.01                | MPR (dB)             |
| 70                | QPSK       | 1       | 1         | 16.23                 | 16.35                    | 16.29                  | 17.0                 |
| Channel           |            |         |           | 632000                | 633334                   | 634668                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3480                  | 3500.01                  | 3520.02                | MPR (dB)             |
| 60                | QPSK       | 1       | 1         | 16.17                 | 16.37                    | 16.30                  | 17.0                 |
| Channel           |            |         |           | 631668                | 633334                   | 635000                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3475.02               | 3500.01                  | 3525                   | MPR (dB)             |
| 50                | QPSK       | 1       | 1         | 16.13                 | 16.35                    | 16.28                  | 17.0                 |
| Channel           |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3470.01               | 3499.98                  | 3529.98                | MPR (dB)             |
| 40                | QPSK       | 1       | 1         | 16.17                 | 16.33                    | 16.28                  | 17.0                 |
| Channel           |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3465                  | 3499.88                  | 3534.99                | MPR (dB)             |
| 30                | QPSK       | 1       | 1         | 16.16                 | 16.35                    | 16.28                  | 17.0                 |
| Channel           |            |         |           | 630634                | 633332                   | 635932                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3462.51               | 3499.98                  | 3537.48                | MPR (dB)             |
| 25                | QPSK       | 1       | 1         | 16.20                 | 16.27                    | 16.29                  | 17.0                 |
| Channel           |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3460.02               | 3499.88                  | 3540                   | MPR (dB)             |
| 20                | QPSK       | 1       | 1         | 16.11                 | 16.32                    | 16.28                  | 17.0                 |
| Channel           |            |         |           | 630600                | 633332                   | 636166                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3457.5                | 3499.98                  | 3542.49                | MPR (dB)             |
| 15                | QPSK       | 1       | 1         | 16.09                 | 16.36                    | 16.26                  | 17.0                 |
| Channel           |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit. (dBm) |
| Frequency (MHz)   |            |         |           | 3455.01               | 3499.98                  | 3544.98                | MPR (dB)             |
| 10                | PI2 BPSK   | 1       | 1         | 16.24                 | 16.26                    | 16.28                  | 17.0                 |

| Part27O_n78_Ant 8 |            |         |           |                       |                          |                        |                     |          |     |
|-------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel           |            |         |           |                       | 650000                   |                        |                     |          |     |
| Frequency (MHz)   |            |         |           |                       | 3750                     |                        |                     |          |     |
| 100               | PI2 BPSK   | 1       | 1         |                       | 15.93                    |                        | 17.0                | 0.0      |     |
| 100               | PI2 BPSK   | 1       | 137       |                       | 15.81                    |                        |                     |          |     |
| 100               | PI2 BPSK   | 1       | 271       |                       | 16.04                    |                        |                     |          |     |
| 100               | PI2 BPSK   | 135     | 0         |                       | 15.99                    |                        |                     |          |     |
| 100               | PI2 BPSK   | 135     | 69        |                       | 16.13                    |                        | 17.0                | 0.0      |     |
| 100               | PI2 BPSK   | 135     | 138       |                       | 15.92                    |                        | 17.0                | 0.0      |     |
| 100               | PI2 BPSK   | 270     | 0         |                       | 15.79                    |                        | 17.0                | 0.0      |     |
| 100               | QPSK       | 1       | 1         |                       | 16.15                    |                        | 17.0                | 0.0      |     |
| 100               | QPSK       | 1       | 137       |                       | 16.05                    |                        |                     |          |     |
| 100               | QPSK       | 1       | 271       |                       | 16.03                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 0         |                       | 16.01                    |                        |                     |          |     |
| 100               | QPSK       | 135     | 69        |                       | 16.12                    |                        | 17.0                | 0.0      |     |
| 100               | QPSK       | 135     | 138       |                       | 15.93                    |                        | 17.0                | 0.0      |     |
| 100               | QPSK       | 270     | 0         |                       | 16.10                    |                        |                     |          |     |
| 100               | 16QAM      | 1       | 1         |                       | 16.04                    |                        |                     |          |     |
| 100               | 64QAM      | 1       | 1         |                       | 15.99                    |                        |                     |          |     |
| 100               | 256QAM     | 1       | 1         |                       | 15.83                    |                        | 17.0                | 0.0      |     |
| Channel           |            |         |           | 649668                | 650000                   | 650332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3743.02               | 3750                     | 3754.98                | 17.0                |          |     |
| 90                | QPSK       | 1       | 1         |                       | 16.02                    | 16.10                  | 16.02               | 17.0     | 0.0 |
| Channel           |            |         |           | 649334                | 650000                   | 650666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3740.01               | 3750                     | 3759.99                | 17.0                |          |     |
| 80                | QPSK       | 1       | 1         |                       | 16.06                    | 16.15                  | 15.98               | 17.0     | 0.0 |
| Channel           |            |         |           | 649000                | 650000                   | 651000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3735                  | 3750                     | 3765                   | 17.0                |          |     |
| 70                | QPSK       | 1       | 1         |                       | 16.04                    | 15.98                  | 15.99               | 17.0     | 0.0 |
| Channel           |            |         |           | 648668                | 650000                   | 651332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3730.02               | 3750                     | 3769.98                | 17.0                |          |     |
| 60                | QPSK       | 1       | 1         |                       | 15.79                    | 16.04                  | 15.76               | 17.0     | 0.0 |
| Channel           |            |         |           | 648334                | 650000                   | 651666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3725.01               | 3750                     | 3774.99                | 17.0                |          |     |
| 50                | QPSK       | 1       | 1         |                       | 15.86                    | 15.94                  | 15.89               | 17.0     | 0.0 |
| Channel           |            |         |           | 648000                | 650000                   | 652000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3720                  | 3750                     | 3780                   | 17.0                |          |     |
| 40                | QPSK       | 1       | 1         |                       | 16.09                    | 15.86                  | 16.09               | 17.0     | 0.0 |
| Channel           |            |         |           | 647668                | 650000                   | 652332                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3715.02               | 3750                     | 3784.98                | 17.0                |          |     |
| 30                | QPSK       | 1       | 1         |                       | 15.88                    | 16.15                  | 15.81               | 17.0     | 0.0 |
| Channel           |            |         |           | 647500                | 650000                   | 652500                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3712.5                | 3750                     | 3787.5                 | 17.0                |          |     |
| 25                | QPSK       | 1       | 1         |                       | 15.97                    | 16.13                  | 15.99               | 17.0     | 0.0 |
| Channel           |            |         |           | 647334                | 650000                   | 652666                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3710.01               | 3750                     | 3789.99                | 17.0                |          |     |
| 20                | QPSK       | 1       | 1         |                       | 15.88                    | 15.98                  | 15.74               | 17.0     | 0.0 |
| Channel           |            |         |           | 647168                | 650000                   | 652832                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3707.52               | 3750                     | 3792.48                | 17.0                |          |     |
| 15                | QPSK       | 1       | 1         |                       | 16.08                    | 15.92                  | 16.10               | 17.0     | 0.0 |
| Channel           |            |         |           | 647000                | 650000                   | 653000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz)   |            |         |           | 3705                  | 3750                     | 3795                   | 17.0                |          |     |
| 10                | PI2 BPSK   | 1       | 1         |                       | 15.86                    | 15.89                  | 15.83               | 17.0     | 0.0 |



Reduced Power Mode for DSI4

| n2_Ant 1        |            |         |           |                       |                          |                        |                     |          |      |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|------|-----|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |      |     |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 24.0                | 0.0      |      |     |
| Frequency (MHz) |            |         |           | 1860                  | 1860                     | 1900                   |                     |          |      |     |
| 20              | PI/2 BPSK  | 1       | 1         | 23.15                 | 23.43                    | 23.35                  |                     |          | 24.0 | 0.0 |
| 20              | PI/2 BPSK  | 1       | 53        | 23.34                 | 23.44                    | 23.31                  |                     |          |      |     |
| 20              | PI/2 BPSK  | 1       | 104       | 23.40                 | 23.45                    | 23.23                  |                     |          |      |     |
| 20              | PI/2 BPSK  | 50      | 0         | 22.63                 | 22.90                    | 22.83                  |                     |          |      |     |
| 20              | PI/2 BPSK  | 50      | 28        | 23.22                 | 23.42                    | 23.32                  | 23.5                | 0.5      |      |     |
| 20              | PI/2 BPSK  | 50      | 56        | 22.78                 | 22.86                    | 22.68                  | 23.5                | 0.5      |      |     |
| 20              | PI/2 BPSK  | 100     | 0         | 22.68                 | 22.88                    | 22.81                  |                     |          |      |     |
| 20              | QPSK       | 1       | 1         | 23.43                 | 23.50                    | 23.46                  |                     |          |      |     |
| 20              | QPSK       | 1       | 53        | 23.42                 | 23.46                    | 23.44                  |                     |          |      |     |
| 20              | QPSK       | 1       | 104       | 23.37                 | 23.44                    | 23.37                  | 24.0                | 0.0      |      |     |
| 20              | QPSK       | 50      | 0         | 22.34                 | 22.44                    | 22.40                  |                     |          |      |     |
| 20              | QPSK       | 50      | 28        | 23.36                 | 23.38                    | 23.34                  |                     |          |      |     |
| 20              | QPSK       | 50      | 56        | 22.34                 | 22.38                    | 22.34                  |                     |          |      |     |
| 20              | QPSK       | 100     | 0         | 22.29                 | 22.41                    | 22.40                  | 23.0                | 1.0      |      |     |
| 20              | 16QAM      | 1       | 1         | 22.64                 | 22.72                    | 22.69                  | 23.0                | 1.0      |      |     |
| 20              | 64QAM      | 1       | 1         | 20.64                 | 20.66                    | 20.62                  | 21.5                | 2.5      |      |     |
| 20              | 256QAM     | 1       | 1         | 18.95                 | 19.07                    | 19.06                  | 19.5                | 4.5      |      |     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |      |     |
| Frequency (MHz) |            |         |           | 1857.5                | 1860                     | 1902.5                 | 24.0                | 0.0      |      |     |
| 15              | QPSK       | 1       | 1         | 23.39                 | 23.46                    | 23.31                  |                     |          |      |     |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 |                     | 24.0     | 0.0  |     |
| Frequency (MHz) |            |         |           | 1855                  | 1860                     | 1865                   |                     |          |      |     |
| 10              | QPSK       | 1       | 1         | 23.44                 | 23.39                    | 23.43                  | 24.0                |          | 0.0  |     |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 |                     |          |      |     |
| Frequency (MHz) |            |         |           | 1852.5                | 1860                     | 1907.5                 | Tune-up limit (dBm) | MPR (dB) |      |     |
| 5               | QPSK       | 1       | 1         | 23.32                 | 23.45                    | 23.48                  | 24.0                | 0.0      |      |     |

| n2_Ant 2        |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | 24.0                | 0.0      |
| Frequency (MHz) |            |         |           | 1860                  | 1860                     | 1900                   |                     |          |
| 20              | PI/2 BPSK  | 1       | 1         | 23.20                 | 23.25                    | 23.31                  |                     |          |
| 20              | PI/2 BPSK  | 1       | 53        | 23.28                 | 23.37                    | 23.27                  |                     |          |
| 20              | PI/2 BPSK  | 1       | 104       | 23.34                 | 23.42                    | 23.10                  | 23.5                | 0.5      |
| 20              | PI/2 BPSK  | 50      | 0         | 22.64                 | 22.83                    | 22.67                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 28        | 23.08                 | 23.38                    | 23.12                  |                     |          |
| 20              | PI/2 BPSK  | 50      | 56        | 22.63                 | 22.83                    | 22.60                  |                     |          |
| 20              | PI/2 BPSK  | 100     | 0         | 22.61                 | 22.87                    | 22.65                  | 24.0                | 0.5      |
| 20              | QPSK       | 1       | 1         | 23.26                 | 23.45                    | 23.27                  |                     |          |
| 20              | QPSK       | 1       | 53        | 23.15                 | 23.42                    | 23.24                  |                     |          |
| 20              | QPSK       | 1       | 104       | 23.22                 | 23.41                    | 23.13                  |                     |          |
| 20              | QPSK       | 50      | 0         | 22.10                 | 22.33                    | 22.21                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 28        | 23.23                 | 23.41                    | 23.24                  | 24.0                | 0.0      |
| 20              | QPSK       | 50      | 56        | 22.16                 | 22.33                    | 22.10                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.09                 | 22.36                    | 22.16                  |                     |          |
| 20              | 16QAM      | 1       | 1         | 22.03                 | 22.29                    | 22.53                  |                     |          |
| 20              | 64QAM      | 1       | 1         | 20.59                 | 20.63                    | 20.74                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 18.55                 | 18.83                    | 19.02                  | 19.5                | 4.5      |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1857.5                | 1860                     | 1902.5                 | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.80                 | 23.39                    | 23.30                  |                     |          |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 |                     |          |
| Frequency (MHz) |            |         |           | 1855                  | 1860                     | 1865                   |                     |          |
| 10              | QPSK       | 1       | 1         | 22.79                 | 23.26                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1860                     | 1907.5                 | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.17                 | 23.35                    | 23.01                  |                     |          |

| n5_Ant 0        |            |         |           |                       |                          |                        |                     |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|---------------------|----------|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB)            |          |
| Channel         |            |         |           | 166800                | 167300                   | 167800                 | 24.0                | 0.0                 |          |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |                     |          |
| 20              | PI/2 BPSK  | 1       | 1         | 23.17                 | 23.09                    | 23.14                  |                     |                     |          |
| 20              | PI/2 BPSK  | 1       | 53        | 23.17                 | 23.12                    | 23.16                  |                     |                     |          |
| 20              | PI/2 BPSK  | 1       | 104       | 22.67                 | 22.69                    | 22.32                  | 23.5                | 0.5                 |          |
| 20              | PI/2 BPSK  | 50      | 0         | 22.59                 | 22.67                    | 22.62                  |                     |                     |          |
| 20              | PI/2 BPSK  | 50      | 28        | 22.58                 | 22.57                    | 22.65                  |                     |                     |          |
| 20              | PI/2 BPSK  | 50      | 56        | 22.63                 | 22.48                    | 22.45                  |                     |                     |          |
| 20              | PI/2 BPSK  | 100     | 0         | 22.71                 | 22.63                    | 22.61                  | 23.5                | 0.5                 |          |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.16                    | 23.16                  |                     |                     |          |
| 20              | QPSK       | 1       | 53        | 23.08                 | 23.07                    | 23.12                  |                     |                     |          |
| 20              | QPSK       | 1       | 104       | 22.19                 | 22.20                    | 22.28                  |                     |                     |          |
| 20              | QPSK       | 50      | 0         | 22.09                 | 22.11                    | 22.10                  | 23.0                | 1.0                 |          |
| 20              | QPSK       | 50      | 28        | 22.10                 | 22.15                    | 22.14                  | 24.0                | 0.0                 |          |
| 20              | QPSK       | 50      | 56        | 22.06                 | 21.93                    | 21.96                  | 23.0                | 1.0                 |          |
| 20              | QPSK       | 100     | 0         | 22.14                 | 22.20                    | 22.18                  |                     |                     |          |
| 20              | 16QAM      | 1       | 1         | 22.28                 | 22.28                    | 22.09                  |                     |                     |          |
| 20              | 64QAM      | 1       | 1         | 20.90                 | 20.67                    | 20.71                  |                     |                     |          |
| 20              | 256QAM     | 1       | 1         | 18.41                 | 18.48                    | 18.40                  | 19.5                | 4.5                 |          |
| Channel         |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit (dBm) | MPR (dB)            |          |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  | 24.0                | 0.0                 |          |
| 15              | QPSK       | 1       | 1         | 23.14                 | 23.11                    | 22.94                  |                     |                     |          |
| Channel         |            |         |           | 165800                | 167300                   | 168800                 |                     | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 23.14                 | 23.09                    | 23.00                  |                     |                     |          |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) |                     | MPR (dB) |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  | 24.0                |                     | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.09                 | 23.06                    | 23.00                  |                     |                     |          |



### n5\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 166800                | 167300                   | 167800                 |                     |          |
| Frequency (MHz) |            |         |           | 23.4                  | 23.3                     | 23.9                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 23.10                 | 23.09                    | 23.08                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 23.05                 | 23.05                    | 23.14                  |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 23.07                 | 23.10                    | 22.27                  |                     |          |
| 20              | PI2 BPSK   | 50      | 0         | 22.53                 | 22.62                    | 22.55                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 28        | 23.05                 | 23.01                    | 23.14                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 22.58                 | 22.63                    | 22.40                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 100     | 0         | 22.81                 | 22.78                    | 22.77                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.04                 | 23.15                    | 23.05                  |                     |          |
| 20              | QPSK       | 1       | 53        | 22.98                 | 23.06                    | 23.01                  |                     |          |
| 20              | QPSK       | 1       | 104       | 22.59                 | 22.62                    | 22.61                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 0         | 22.13                 | 22.11                    | 22.11                  |                     |          |
| 20              | QPSK       | 50      | 28        | 22.95                 | 23.07                    | 22.97                  |                     |          |
| 20              | QPSK       | 50      | 56        | 21.99                 | 21.97                    | 21.90                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.00                 | 22.04                    | 22.03                  | 23.0                | 1.0      |
| 20              | 16QAM      | 1       | 1         | 22.13                 | 22.10                    | 22.08                  |                     |          |
| 20              | 64QAM      | 1       | 1         | 20.45                 | 20.47                    | 20.45                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 18.59                 | 18.62                    | 18.60                  | 19.5                | 4.5      |
| Channel         |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.92                 | 23.08                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 165800                | 167300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.98                 | 23.11                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.03                 | 22.97                    | 22.90                  | 24.0                | 0.0      |

### n7\_Ant 1

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 504000                | 507000                   | 510000                 |                     |          |
| Frequency (MHz) |            |         |           | 23.20                 | 23.35                    | 23.20                  |                     |          |
| 40              | PI2 BPSK   | 1       | 1         | 23.05                 | 23.12                    | 23.09                  | 24.0                | 0.0      |
| 40              | PI2 BPSK   | 1       | 108       | 23.11                 | 23.14                    | 23.11                  |                     |          |
| 40              | PI2 BPSK   | 1       | 214       | 22.89                 | 23.01                    | 23.06                  |                     |          |
| 40              | PI2 BPSK   | 108     | 0         | 22.61                 | 22.58                    | 22.56                  | 23.5                | 0.5      |
| 40              | PI2 BPSK   | 108     | 54        | 23.04                 | 23.10                    | 23.05                  | 24.0                | 0.0      |
| 40              | PI2 BPSK   | 108     | 108       | 22.60                 | 22.62                    | 22.68                  | 23.5                | 0.5      |
| 40              | PI2 BPSK   | 216     | 0         | 22.77                 | 22.68                    | 22.62                  | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 23.14                 | 23.15                    | 23.06                  |                     |          |
| 40              | QPSK       | 1       | 108       | 23.13                 | 23.12                    | 23.05                  |                     |          |
| 40              | QPSK       | 1       | 214       | 22.88                 | 22.91                    | 23.04                  | 23.0                | 1.0      |
| 40              | QPSK       | 108     | 0         | 22.08                 | 22.08                    | 22.06                  |                     |          |
| 40              | QPSK       | 108     | 54        | 23.11                 | 23.12                    | 23.04                  |                     |          |
| 40              | QPSK       | 108     | 108       | 22.32                 | 22.34                    | 22.24                  | 23.0                | 1.0      |
| 40              | QPSK       | 216     | 0         | 22.15                 | 22.16                    | 22.14                  | 23.0                | 1.0      |
| 40              | 16QAM      | 1       | 1         | 21.93                 | 22.15                    | 22.27                  |                     |          |
| 40              | 64QAM      | 1       | 1         | 20.63                 | 20.67                    | 20.53                  |                     |          |
| 40              | 256QAM     | 1       | 1         | 18.60                 | 18.64                    | 18.62                  | 19.5                | 4.5      |
| Channel         |            |         |           | 503000                | 507000                   | 511000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2515                  | 2535                     | 2555                   | 24.0                | 0.0      |
| 30              | QPSK       | 1       | 1         | 23.07                 | 23.09                    | 22.99                  | 24.0                | 0.0      |
| Channel         |            |         |           | 502300                | 507000                   | 511500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2512.5                | 2535                     | 2557.5                 | 24.0                | 0.0      |
| 25              | QPSK       | 1       | 1         | 22.93                 | 22.96                    | 22.87                  | 24.0                | 0.0      |
| Channel         |            |         |           | 502000                | 507000                   | 512000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.05                 | 23.11                    | 22.85                  | 24.0                | 0.0      |
| Channel         |            |         |           | 501500                | 507000                   | 512500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 22.99                 | 23.13                    | 22.78                  | 24.0                | 0.0      |
| Channel         |            |         |           | 501000                | 507000                   | 513000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.90                 | 22.99                    | 23.06                  | 24.0                | 0.0      |
| Channel         |            |         |           | 500500                | 507000                   | 513500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.13                 | 23.07                    | 22.80                  | 24.0                | 0.0      |

### n12\_Ant 0

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 141300                | 141500                   | 141700                 |                     |          |
| Frequency (MHz) |            |         |           | 706.5                 | 707.5                    | 708.5                  |                     |          |
| 15              | PI2 BPSK   | 1       | 1         | 23.15                 | 23.14                    | 23.16                  | 24.0                | 0.0      |
| 15              | PI2 BPSK   | 1       | 40        | 23.11                 | 23.11                    | 23.16                  |                     |          |
| 15              | PI2 BPSK   | 1       | 77        | 23.17                 | 23.11                    | 23.19                  |                     |          |
| 15              | PI2 BPSK   | 36      | 0         | 22.61                 | 22.72                    | 22.69                  | 23.5                | 0.5      |
| 15              | PI2 BPSK   | 36      | 22        | 23.11                 | 23.17                    | 23.16                  | 24.0                | 0.0      |
| 15              | PI2 BPSK   | 36      | 43        | 22.78                 | 22.78                    | 22.78                  | 23.5                | 0.5      |
| 15              | PI2 BPSK   | 75      | 0         | 22.79                 | 22.72                    | 22.73                  | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 1         | 23.16                 | 23.22                    | 23.16                  |                     |          |
| 15              | QPSK       | 1       | 40        | 23.12                 | 23.20                    | 23.17                  |                     |          |
| 15              | QPSK       | 1       | 77        | 23.15                 | 23.18                    | 23.14                  | 23.0                | 1.0      |
| 15              | QPSK       | 36      | 0         | 22.16                 | 22.16                    | 22.19                  |                     |          |
| 15              | QPSK       | 36      | 22        | 23.13                 | 23.20                    | 23.16                  |                     |          |
| 15              | QPSK       | 36      | 43        | 22.27                 | 22.11                    | 22.24                  | 23.0                | 1.0      |
| 15              | QPSK       | 75      | 0         | 22.24                 | 22.27                    | 22.26                  | 23.0                | 1.0      |
| 15              | 16QAM      | 1       | 1         | 21.67                 | 22.15                    | 22.45                  |                     |          |
| 15              | 64QAM      | 1       | 1         | 20.68                 | 20.66                    | 21.02                  |                     |          |
| 20              | 256QAM     | 1       | 1         | 18.29                 | 18.24                    | 18.52                  | 19.5                | 4.5      |
| Channel         |            |         |           | 140800                | 141500                   | 142200                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 23.06                 | 23.12                    | 23.02                  | 24.0                | 0.0      |
| Channel         |            |         |           | 140300                | 141500                   | 142700                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5                    | 713.5                  | 24.0                | 0.0      |
| 5               | QPSK       | 1       | 1         | 23.02                 | 23.16                    | 23.07                  | 24.0                | 0.0      |



| n14_Ant 0       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 790                   |                          |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 22.80                 |                          |                        | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 26        | 22.77                 |                          |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 50        | 22.70                 |                          |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         | 22.20                 |                          |                        | 23.5                | 0.5      |
| 10              | PI2 BPSK   | 25      | 14        | 22.82                 |                          |                        | 24.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        | 22.15                 |                          |                        | 23.5                | 0.5      |
| 10              | PI2 BPSK   | 50      | 0         | 22.29                 |                          |                        | 24.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.83                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 26        | 22.82                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 50        | 22.64                 |                          |                        | 23.0                | 1.0      |
| 10              | QPSK       | 25      | 0         | 21.78                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 14        | 22.81                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 27        | 21.73                 |                          |                        | 23.0                | 1.0      |
| 10              | QPSK       | 50      | 0         | 21.78                 |                          |                        | 23.0                | 1.0      |
| 10              | 16QAM      | 1       | 1         | 22.13                 |                          |                        | 21.5                | 2.5      |
| 10              | 64QAM      | 1       | 1         | 20.82                 |                          |                        | 21.5                | 2.5      |
| 10              | 256QAM     | 1       | 1         | 18.06                 |                          |                        | 19.5                | 4.5      |
| Channel         |            |         |           | 158100                | 158600                   | 159100                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 790.5                 | 793                      | 795.5                  |                     |          |
| 5               | QPSK       | 1       | 1         | 22.80                 | 22.78                    | 22.67                  | 24.0                | 0.0      |

| n25_Ant 1       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 1860                  | 1862.5                   | 1865                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 23.38                 | 23.41                    | 23.39                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 23.33                 | 23.51                    | 23.31                  |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 23.37                 | 23.48                    | 22.83                  |                     |          |
| 20              | PI2 BPSK   | 50      | 0         | 22.77                 | 23.02                    | 22.98                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 28        | 23.22                 | 23.45                    | 23.28                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 22.92                 | 23.04                    | 22.85                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 100     | 0         | 22.85                 | 23.03                    | 22.84                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.26                 | 23.52                    | 23.25                  |                     |          |
| 20              | QPSK       | 1       | 53        | 23.27                 | 23.49                    | 23.22                  |                     |          |
| 20              | QPSK       | 1       | 104       | 23.25                 | 23.37                    | 23.18                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 0         | 22.22                 | 22.55                    | 22.48                  |                     |          |
| 20              | QPSK       | 50      | 28        | 23.26                 | 23.50                    | 23.25                  |                     |          |
| 20              | QPSK       | 50      | 56        | 22.43                 | 22.50                    | 22.32                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.34                 | 22.54                    | 22.37                  | 23.0                | 1.0      |
| 20              | 16QAM      | 1       | 1         | 22.38                 | 22.53                    | 22.76                  | 21.5                | 2.5      |
| 20              | 64QAM      | 1       | 1         | 20.82                 | 20.85                    | 20.89                  | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 19.03                 | 19.37                    | 19.44                  | 19.5                | 4.5      |
| Channel         |            |         |           | 371900                | 376500                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1857.5                | 1862.5                   | 1907.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 23.31                 | 23.40                    | 23.35                  | 24.0                | 0.0      |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1862.5                   | 1910                   |                     |          |
| 10              | QPSK       | 1       | 1         | 23.16                 | 23.37                    | 23.12                  | 24.0                | 0.0      |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1862.5                   | 1912.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 23.13                 | 23.25                    | 23.21                  | 24.0                | 0.0      |

| n25_Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           |                       |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 1900                  | 1902.5                   | 1905                   |                     |          |
| 20              | PI2 BPSK   | 1       | 1         | 23.13                 | 23.28                    | 23.22                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 1       | 53        | 23.29                 | 23.33                    | 23.23                  |                     |          |
| 20              | PI2 BPSK   | 1       | 104       | 23.42                 | 23.37                    | 23.19                  |                     |          |
| 20              | PI2 BPSK   | 50      | 0         | 22.82                 | 22.96                    | 22.81                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 50      | 28        | 23.18                 | 23.35                    | 23.31                  | 24.0                | 0.0      |
| 20              | PI2 BPSK   | 50      | 56        | 22.75                 | 22.90                    | 22.64                  | 23.5                | 0.5      |
| 20              | PI2 BPSK   | 100     | 0         | 22.71                 | 22.81                    | 22.83                  | 24.0                | 0.0      |
| 20              | QPSK       | 1       | 1         | 23.36                 | 23.48                    | 23.32                  |                     |          |
| 20              | QPSK       | 1       | 53        | 23.25                 | 23.36                    | 23.30                  |                     |          |
| 20              | QPSK       | 1       | 104       | 23.24                 | 23.42                    | 23.19                  | 23.0                | 1.0      |
| 20              | QPSK       | 50      | 0         | 22.13                 | 22.45                    | 22.30                  |                     |          |
| 20              | QPSK       | 50      | 28        | 23.27                 | 23.45                    | 23.30                  |                     |          |
| 20              | QPSK       | 50      | 56        | 22.31                 | 22.36                    | 22.13                  | 23.0                | 1.0      |
| 20              | QPSK       | 100     | 0         | 22.16                 | 22.37                    | 22.27                  | 23.0                | 1.0      |
| 20              | 16QAM      | 1       | 1         | 22.16                 | 22.25                    | 22.40                  | 21.5                | 2.5      |
| 20              | 64QAM      | 1       | 1         | 20.58                 | 20.67                    | 20.94                  | 21.5                | 2.5      |
| 20              | 256QAM     | 1       | 1         | 18.51                 | 18.75                    | 18.89                  | 19.5                | 4.5      |
| Channel         |            |         |           | 371500                | 376500                   | 381500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1857.5                | 1862.5                   | 1907.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 23.20                 | 23.31                    | 23.38                  | 24.0                | 0.0      |
| Channel         |            |         |           | 371000                | 376500                   | 382000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1855                  | 1862.5                   | 1910                   |                     |          |
| 10              | QPSK       | 1       | 1         | 23.05                 | 23.37                    | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           | 370500                | 376500                   | 382500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1852.5                | 1862.5                   | 1912.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 23.21                 | 23.27                    | 23.18                  | 24.0                | 0.0      |



| n26_Ant 0       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 164800                | 166300                   | 167800                 |                     |          |  |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                 | 23.07                    | 23.01                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 23.08                 | 23.20                    | 23.14                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 104       | 23.14                 | 23.17                    | 23.19                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.62                 | 22.50                    | 22.57                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 50      | 28        | 23.08                 | 23.13                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.62                 | 22.79                    | 22.82                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.53                 | 22.58                    | 22.66                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.18                 | 23.21                    | 23.12                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 23.10                 | 23.12                    | 23.07                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 104       | 23.13                 | 23.18                    | 23.10                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.08                 | 22.07                    | 22.10                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 50      | 28        | 23.16                 | 23.19                    | 23.12                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.27                 | 22.31                    | 22.32                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 100     | 0         | 22.09                 | 22.18                    | 22.15                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 22.16                 | 22.16                    | 22.16                  | 23.0                | 1.0      |  |
| 20              | 64QAM      | 1       | 1         | 20.78                 | 20.75                    | 20.69                  | 21.5                | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 18.23                 | 18.26                    | 18.26                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 164300                | 166300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 23.17                 | 23.19                    | 23.01                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 818                   | 831.5                    | 844                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 23.14                 | 23.11                    | 22.94                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.15                 | 23.17                    | 23.04                  | 24.0                | 0.0      |  |

| n26_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 164800                | 166300                   | 167800                 |                     |          |  |
| Frequency (MHz) |            |         |           | 824                   | 831.5                    | 839                    |                     |          |  |
| 20              | PI2 BPSK   | 1       | 1         | 23.12                 | 23.15                    | 23.12                  |                     |          |  |
| 20              | PI2 BPSK   | 1       | 53        | 23.10                 | 23.12                    | 23.10                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 1       | 104       | 23.16                 | 23.12                    | 23.15                  |                     |          |  |
| 20              | PI2 BPSK   | 50      | 0         | 22.58                 | 22.57                    | 22.50                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 50      | 28        | 23.07                 | 23.12                    | 23.09                  | 24.0                | 0.0      |  |
| 20              | PI2 BPSK   | 50      | 56        | 22.70                 | 22.74                    | 22.77                  | 23.5                | 0.5      |  |
| 20              | PI2 BPSK   | 100     | 0         | 22.51                 | 22.63                    | 22.57                  |                     |          |  |
| 20              | QPSK       | 1       | 1         | 23.13                 | 23.17                    | 23.11                  |                     |          |  |
| 20              | QPSK       | 1       | 53        | 23.12                 | 23.15                    | 23.06                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 104       | 23.07                 | 23.11                    | 23.09                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 22.03                 | 22.07                    | 22.03                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 50      | 28        | 23.11                 | 23.14                    | 23.06                  | 24.0                | 0.0      |  |
| 20              | QPSK       | 50      | 56        | 22.22                 | 22.27                    | 22.20                  | 23.0                | 1.0      |  |
| 20              | QPSK       | 100     | 0         | 22.02                 | 22.11                    | 22.02                  |                     |          |  |
| 20              | 16QAM      | 1       | 1         | 21.67                 | 21.79                    | 21.70                  | 23.0                | 1.0      |  |
| 20              | 64QAM      | 1       | 1         | 20.25                 | 20.32                    | 20.26                  | 21.5                | 2.5      |  |
| 20              | 256QAM     | 1       | 1         | 18.72                 | 18.73                    | 18.62                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 164300                | 166300                   | 168300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 23.02                 | 23.08                    | 22.86                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 163800                | 166300                   | 168800                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.89                 | 23.11                    | 22.84                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 163300                | 166300                   | 169300                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |          |  |
| 5               | QPSK       | 1       | 1         | 23.07                 | 22.97                    | 23.14                  | 24.0                | 0.0      |  |

| n30_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 461500                | 462000                   | 462500                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |                     |          |  |
| 10              | PI2 BPSK   | 1       | 1         |                       | 22.85                    |                        |                     |          |  |
| 10              | PI2 BPSK   | 1       | 26        |                       | 22.88                    |                        | 24.0                | 0.0      |  |
| 10              | PI2 BPSK   | 1       | 50        |                       | 22.86                    |                        |                     |          |  |
| 10              | PI2 BPSK   | 25      | 0         |                       | 22.13                    |                        | 23.5                | 0.5      |  |
| 10              | PI2 BPSK   | 25      | 14        |                       | 22.63                    |                        | 24.0                | 0.0      |  |
| 10              | PI2 BPSK   | 25      | 27        |                       | 22.69                    |                        | 23.5                | 0.5      |  |
| 10              | PI2 BPSK   | 50      | 0         |                       | 22.25                    |                        |                     |          |  |
| 10              | QPSK       | 1       | 1         |                       | 22.89                    |                        |                     |          |  |
| 10              | QPSK       | 1       | 26        |                       | 22.83                    |                        | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 50        |                       | 22.74                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 0         |                       | 21.81                    |                        | 23.0                | 1.0      |  |
| 10              | QPSK       | 25      | 14        |                       | 22.85                    |                        | 24.0                | 0.0      |  |
| 10              | QPSK       | 25      | 27        |                       | 21.73                    |                        | 23.0                | 1.0      |  |
| 10              | QPSK       | 50      | 0         |                       | 21.90                    |                        |                     |          |  |
| 10              | 16QAM      | 1       | 1         |                       | 21.93                    |                        | 23.0                | 1.0      |  |
| 10              | 64QAM      | 1       | 1         |                       | 20.04                    |                        | 21.5                | 2.5      |  |
| 10              | 256QAM     | 1       | 1         |                       | 18.18                    |                        | 19.5                | 4.5      |  |
| Channel         |            |         |           | 461500                | 462000                   | 462500                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 | 24.0                | 0.0      |  |
| 5               | QPSK       | 1       | 1         |                       | 22.86                    | 22.83                  | 22.78               | 24.0     |  |



| n30_Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 462000                |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 2210                  |                          |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 21.96                 |                          |                        | 23.0                | 0.0      |
| 10              | PI2 BPSK   | 1       | 26        | 21.95                 |                          |                        |                     |          |
| 10              | PI2 BPSK   | 1       | 50        | 21.92                 |                          |                        |                     |          |
| 10              | PI2 BPSK   | 25      | 0         | 21.44                 |                          |                        | 22.5                | 0.5      |
| 10              | PI2 BPSK   | 25      | 14        | 21.96                 |                          |                        | 23.0                | 0.0      |
| 10              | PI2 BPSK   | 25      | 27        | 21.42                 |                          |                        | 22.5                | 0.5      |
| 10              | PI2 BPSK   | 50      | 0         | 21.44                 |                          |                        | 23.0                | 0.0      |
| 10              | QPSK       | 1       | 1         | 22.00                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 26        | 21.96                 |                          |                        |                     |          |
| 10              | QPSK       | 1       | 50        | 21.97                 |                          |                        | 22.0                | 1.0      |
| 10              | QPSK       | 25      | 0         | 20.88                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 14        | 21.97                 |                          |                        |                     |          |
| 10              | QPSK       | 25      | 27        | 20.98                 |                          |                        | 22.0                | 1.0      |
| 10              | QPSK       | 50      | 0         | 20.93                 |                          |                        | 22.0                | 1.0      |
| 10              | 16QAM      | 1       | 1         | 20.85                 |                          |                        | 22.0                | 1.0      |
| 10              | 64QAM      | 1       | 1         | 19.30                 |                          |                        | 20.5                | 2.5      |
| 10              | 256QAM     | 1       | 1         | 17.37                 |                          |                        | 18.5                | 4.5      |
| Channel         |            |         |           | 461500                | 462000                   | 462500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 21.94                 | 21.94                    | 21.89                  | 23.0                | 0.0      |

| n66_Ant 1       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 346000                | 349000                   | 352000                 |                     |          |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |
| 40              | PI2 BPSK   | 1       | 1         | 23.23                 | 23.25                    | 23.25                  | 24.0                | 0.0      |
| 40              | PI2 BPSK   | 1       | 108       | 23.21                 | 23.23                    | 23.17                  |                     |          |
| 40              | PI2 BPSK   | 1       | 214       | 23.12                 | 23.15                    | 23.20                  |                     |          |
| 40              | PI2 BPSK   | 108     | 0         | 22.64                 | 22.70                    | 22.68                  | 23.5                | 0.5      |
| 40              | PI2 BPSK   | 108     | 54        | 23.18                 | 23.22                    | 23.17                  | 24.0                | 0.0      |
| 40              | PI2 BPSK   | 108     | 108       | 22.85                 | 22.82                    | 22.83                  | 23.5                | 0.5      |
| 40              | PI2 BPSK   | 216     | 0         | 22.77                 | 22.80                    | 22.71                  | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 23.25                 | 23.27                    | 23.24                  |                     |          |
| 40              | QPSK       | 1       | 108       | 23.21                 | 23.25                    | 23.14                  |                     |          |
| 40              | QPSK       | 1       | 214       | 23.11                 | 23.18                    | 23.12                  | 23.0                | 1.0      |
| 40              | QPSK       | 108     | 0         | 22.21                 | 22.20                    | 22.21                  |                     |          |
| 40              | QPSK       | 108     | 54        | 23.21                 | 23.25                    | 23.19                  |                     |          |
| 40              | QPSK       | 108     | 108       | 22.34                 | 22.37                    | 22.27                  | 23.0                | 1.0      |
| 40              | QPSK       | 216     | 0         | 22.18                 | 22.23                    | 22.21                  | 23.0                | 1.0      |
| 40              | 16QAM      | 1       | 1         | 22.17                 | 22.28                    | 22.20                  | 23.0                | 1.0      |
| 40              | 64QAM      | 1       | 1         | 20.30                 | 20.34                    | 20.36                  | 21.5                | 2.5      |
| 40              | 256QAM     | 1       | 1         | 18.59                 | 18.66                    | 18.63                  | 19.5                | 4.5      |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |
| 30              | QPSK       | 1       | 1         | 23.13                 | 23.25                    | 23.16                  | 24.0                | 0.0      |
| Channel         |            |         |           | 345000                | 349000                   | 353500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1747.5                 |                     |          |
| 25              | QPSK       | 1       | 1         | 23.17                 | 23.22                    | 23.06                  | 24.0                | 0.0      |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |
| 20              | QPSK       | 1       | 1         | 22.89                 | 23.02                    | 23.00                  | 24.0                | 0.0      |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 23.16                 | 23.00                    | 23.14                  | 24.0                | 0.0      |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |
| 10              | QPSK       | 1       | 1         | 23.23                 | 23.13                    | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 23.19                 | 22.95                    | 23.09                  | 24.0                | 0.0      |

| n66_Ant 2       |            |         |           |                       |                          |                        |                     |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 346000                | 349000                   | 352000                 |                     |          |
| Frequency (MHz) |            |         |           | 1730                  | 1745                     | 1760                   |                     |          |
| 40              | PI2 BPSK   | 1       | 1         | 23.15                 | 23.17                    | 23.08                  | 24.0                | 0.0      |
| 40              | PI2 BPSK   | 1       | 108       | 23.14                 | 23.14                    | 22.99                  |                     |          |
| 40              | PI2 BPSK   | 1       | 214       | 22.83                 | 23.12                    | 22.88                  |                     |          |
| 40              | PI2 BPSK   | 108     | 0         | 22.50                 | 22.62                    | 22.48                  | 23.5                | 0.5      |
| 40              | PI2 BPSK   | 108     | 54        | 22.95                 | 23.13                    | 23.00                  | 24.0                | 0.0      |
| 40              | PI2 BPSK   | 108     | 108       | 23.15                 | 22.86                    | 22.67                  | 23.5                | 0.5      |
| 40              | PI2 BPSK   | 216     | 0         | 22.80                 | 22.81                    | 22.62                  | 24.0                | 0.0      |
| 40              | QPSK       | 1       | 1         | 23.16                 | 23.19                    | 22.98                  |                     |          |
| 40              | QPSK       | 1       | 108       | 23.15                 | 23.18                    | 22.78                  |                     |          |
| 40              | QPSK       | 1       | 214       | 23.14                 | 23.09                    | 22.86                  | 23.0                | 1.0      |
| 40              | QPSK       | 108     | 0         | 22.05                 | 22.16                    | 22.08                  |                     |          |
| 40              | QPSK       | 108     | 54        | 23.13                 | 23.17                    | 22.87                  |                     |          |
| 40              | QPSK       | 108     | 108       | 22.21                 | 22.36                    | 22.11                  | 23.0                | 1.0      |
| 40              | QPSK       | 216     | 0         | 22.21                 | 22.29                    | 22.13                  | 23.0                | 1.0      |
| 40              | 16QAM      | 1       | 1         | 22.84                 | 22.97                    | 22.62                  | 23.0                | 1.0      |
| 40              | 64QAM      | 1       | 1         | 20.41                 | 20.57                    | 20.70                  | 21.5                | 2.5      |
| 40              | 256QAM     | 1       | 1         | 18.86                 | 18.97                    | 18.88                  | 19.5                | 4.5      |
| Channel         |            |         |           | 345000                | 349000                   | 353000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1725                  | 1745                     | 1765                   |                     |          |
| 30              | QPSK       | 1       | 1         | 23.15                 | 23.13                    | 22.84                  | 24.0                | 0.0      |
| Channel         |            |         |           | 345000                | 349000                   | 353500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1722.5                | 1745                     | 1747.5                 |                     |          |
| 25              | QPSK       | 1       | 1         | 23.07                 | 23.18                    | 22.92                  | 24.0                | 0.0      |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |
| 20              | QPSK       | 1       | 1         | 23.17                 | 23.11                    | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           | 343500                | 349000                   | 354500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |
| 15              | QPSK       | 1       | 1         | 23.11                 | 23.14                    | 22.88                  | 24.0                | 0.0      |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |          |
| 10              | QPSK       | 1       | 1         | 23.01                 | 23.14                    | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |          |
| 5               | QPSK       | 1       | 1         | 23.05                 | 23.07                    | 22.73                  | 24.0                | 0.0      |

| n70_Ant 1       |            |         |           |                       |                          |                        |                     |          |     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|-----|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |     |
| Channel         |            |         |           | 340500                |                          |                        |                     |          |     |
| Frequency (MHz) |            |         |           | 1702.5                |                          |                        |                     |          |     |
| 15              | PI2 BPSK   | 1       | 1         |                       | 23.27                    |                        | 24.0                | 0.0      |     |
| 15              | PI2 BPSK   | 1       | 40        |                       | 23.23                    |                        |                     |          |     |
| 15              | PI2 BPSK   | 1       | 77        |                       | 23.18                    |                        |                     |          |     |
| 15              | PI2 BPSK   | 36      | 0         |                       | 22.81                    |                        | 23.5                | 0.5      |     |
| 15              | PI2 BPSK   | 36      | 22        |                       | 23.21                    |                        | 24.0                | 0.0      |     |
| 15              | PI2 BPSK   | 36      | 43        |                       | 22.71                    |                        | 23.5                | 0.5      |     |
| 15              | PI2 BPSK   | 75      | 0         |                       | 22.85                    |                        |                     |          |     |
| 15              | QPSK       | 1       | 1         |                       | 23.30                    |                        | 24.0                | 0.0      |     |
| 15              | QPSK       | 1       | 40        |                       | 23.22                    |                        |                     |          |     |
| 15              | QPSK       | 1       | 77        |                       | 23.16                    |                        |                     |          |     |
| 15              | QPSK       | 36      | 0         |                       | 22.12                    |                        | 23.0                | 1.0      |     |
| 15              | QPSK       | 36      | 22        |                       | 23.26                    |                        | 24.0                | 0.0      |     |
| 15              | QPSK       | 36      | 43        |                       | 22.13                    |                        | 23.0                | 1.0      |     |
| 15              | QPSK       | 75      | 0         |                       | 22.23                    |                        |                     |          |     |
| 15              | 16QAM      | 1       | 1         |                       | 22.25                    |                        | 23.0                | 1.0      |     |
| 15              | 64QAM      | 1       | 1         |                       | 20.87                    |                        | 21.5                | 2.5      |     |
| 15              | 256QAM     | 1       | 1         |                       | 18.87                    |                        | 19.5                | 4.5      |     |
| Channel         |            |         |           | 340000                | 340500                   | 341000                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 1700                  | 1702.5                   | 1705                   |                     |          |     |
| 10              | QPSK       | 1       | 1         |                       | 23.15                    | 23.18                  | 23.06               | 24.0     | 0.0 |
| Channel         |            |         |           | 339500                | 340500                   | 341500                 | Tune-up limit (dBm) | MPR (dB) |     |
| Frequency (MHz) |            |         |           | 1697.5                | 1702.5                   | 1707.5                 |                     |          |     |
| 5               | QPSK       | 1       | 1         |                       | 23.02                    | 23.26                  | 22.98               | 24.0     | 0.0 |

| n70_Ant 2       |            |         |           |                      |                         |                       |                     |          |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|----------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) | MPR (dB) |
| Channel         |            |         |           | 340500               |                         |                       |                     |          |
| Frequency (MHz) |            |         |           | 1702.5               |                         |                       |                     |          |
| 15              | PI2 BPSK   | 1       | 1         |                      | 22.33                   |                       |                     |          |
| 15              | PI2 BPSK   | 1       | 40        |                      | 22.30                   |                       | 24.0                | 0.0      |
| 15              | PI2 BPSK   | 1       | 77        |                      | 22.26                   |                       |                     |          |
| 15              | PI2 BPSK   | 36      | 0         |                      | 21.59                   |                       | 23.5                | 0.5      |
| 15              | PI2 BPSK   | 36      | 22        |                      | 22.17                   |                       | 24.0                | 0.0      |
| 15              | PI2 BPSK   | 36      | 43        |                      | 21.72                   |                       | 23.5                | 0.5      |
| 15              | PI2 BPSK   | 75      | 0         |                      | 21.74                   |                       |                     |          |
| 15              | QPSK       | 1       | 1         |                      | 22.35                   |                       | 24.0                | 0.0      |
| 15              | QPSK       | 1       | 40        |                      | 22.32                   |                       |                     |          |
| 15              | QPSK       | 1       | 77        |                      | 22.25                   |                       |                     |          |
| 15              | QPSK       | 36      | 0         |                      | 21.14                   |                       | 23.0                | 1.0      |
| 15              | QPSK       | 36      | 22        |                      | 22.32                   |                       | 24.0                | 0.0      |
| 15              | QPSK       | 36      | 43        |                      | 21.24                   |                       | 23.0                | 1.0      |
| 15              | QPSK       | 75      | 0         |                      | 21.24                   |                       |                     |          |
| 15              | 16QAM      | 1       | 1         |                      | 21.10                   |                       | 23.0                | 1.0      |
| 15              | 64QAM      | 1       | 1         |                      | 20.00                   |                       | 21.5                | 2.5      |
| 15              | 256QAM     | 1       | 1         |                      | 17.92                   |                       | 19.5                | 4.5      |
| Channel         |            |         |           | 340000               | 340500                  | 341000                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1700                 | 1702.5                  | 1705                  |                     |          |
| 10              | QPSK       | 1       | 1         | 22.31                | 22.26                   | 22.18                 | 24.0                | 0.0      |
| Channel         |            |         |           | 339500               | 340500                  | 341500                | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 1697.5               | 1702.5                  | 1707.5                |                     |          |
| 5               | QPSK       | 1       | 1         | 22.07                | 22.29                   | 22.09                 | 24.0                | 0.0      |



| n71_Ant 0       |            |         |           |                                    |                                       |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|---------------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>134600 | Power Middle<br>Ch. / Freq.<br>136100 | Power High<br>Ch. / Freq.<br>137600 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 67.5                               | 680.5                                 | 683.5                               | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           | 22.72                              | 22.75                                 | 22.78                               |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 22.72                              | 22.75                                 | 22.78                               |                        |             |
| 20              | PI2 BPSK   | 1       | 53        | 22.71                              | 22.65                                 | 22.75                               |                        |             |
| 20              | PI2 BPSK   | 1       | 104       | 22.73                              | 22.80                                 | 22.80                               | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 50      | 0         | 21.67                              | 22.28                                 | 22.15                               |                        |             |
| 20              | PI2 BPSK   | 50      | 28        | 22.72                              | 22.74                                 | 22.78                               |                        |             |
| 20              | PI2 BPSK   | 50      | 56        | 21.79                              | 22.14                                 | 22.42                               |                        |             |
| 20              | PI2 BPSK   | 100     | 0         | 21.76                              | 22.22                                 | 22.27                               | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 22.75                              | 22.84                                 | 22.78                               |                        |             |
| 20              | QPSK       | 1       | 53        | 22.66                              | 22.68                                 | 22.65                               |                        |             |
| 20              | QPSK       | 1       | 104       | 22.71                              | 22.79                                 | 22.74                               |                        |             |
| 20              | QPSK       | 50      | 0         | 21.65                              | 21.76                                 | 21.73                               | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 22.73                              | 22.81                                 | 22.74                               | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 21.57                              | 21.66                                 | 21.68                               | 23.0                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 21.69                              | 21.77                                 | 21.78                               | 23.0                   | 1.0         |
| 20              | 8QAM       | 1       | 1         | 21.60                              | 21.65                                 | 21.67                               | 23.0                   | 1.0         |
| 20              | 64QAM      | 1       | 1         | 20.29                              | 20.35                                 | 20.38                               | 21.5                   | 2.5         |
| 20              | 256QAM     | 1       | 1         | 17.90                              | 17.95                                 | 17.98                               | 19.5                   | 4.5         |
| Channel         |            |         |           | 134100                             | 136100                                | 138100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 670.5                              | 680.5                                 | 690.5                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 22.74                              | 22.69                                 | 22.66                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 133600                             | 136100                                | 138600                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 665                                | 680.5                                 | 693                                 | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 22.64                              | 22.73                                 | 22.59                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 133100                             | 136100                                | 139100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 665.5                              | 680.5                                 | 695.5                               | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 22.72                              | 22.76                                 | 22.73                               | 24.0                   | 0.0         |

| n71_Ant 1       |            |         |           |                                    |                                |                                     |                        |             |
|-----------------|------------|---------|-----------|------------------------------------|--------------------------------|-------------------------------------|------------------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq.<br>134600 | Power<br>Ch. / Freq.<br>136100 | Power High<br>Ch. / Freq.<br>137600 | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Channel         |            |         |           | 134600                             | 136100                         | 137600                              |                        |             |
| Frequency (MHz) |            |         |           | 673                                | 680.5                          | 688                                 |                        |             |
| 20              | PI2 BPSK   | 1       | 1         | 22.76                              | 22.83                          | 22.79                               | 24.0                   | 0.0         |
| 20              | PI2 BPSK   | 1       | 53        | 22.69                              | 22.81                          | 22.81                               |                        |             |
| 20              | PI2 BPSK   | 1       | 104       | 22.69                              | 22.74                          | 22.72                               |                        |             |
| 20              | PI2 BPSK   | 50      | 0         | 22.37                              | 22.35                          | 22.29                               |                        |             |
| 20              | PI2 BPSK   | 50      | 28        | 22.70                              | 22.75                          | 22.73                               | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 50      | 56        | 22.19                              | 22.28                          | 22.16                               | 23.5                   | 0.5         |
| 20              | PI2 BPSK   | 100     | 0         | 22.34                              | 22.37                          | 22.25                               |                        |             |
| 20              | QPSK       | 1       | 1         | 22.80                              | 22.84                          | 22.79                               |                        |             |
| 20              | QPSK       | 1       | 53        | 22.67                              | 22.76                          | 22.73                               |                        |             |
| 20              | QPSK       | 1       | 104       | 22.78                              | 22.82                          | 22.78                               | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 0         | 21.76                              | 21.78                          | 21.74                               | 23.0                   | 1.0         |
| 20              | QPSK       | 50      | 28        | 22.76                              | 22.80                          | 22.77                               | 24.0                   | 0.0         |
| 20              | QPSK       | 50      | 56        | 21.72                              | 21.71                          | 21.65                               | 23.0                   | 1.0         |
| 20              | QPSK       | 100     | 0         | 21.67                              | 21.76                          | 21.69                               |                        |             |
| 20              | 16QAM      | 1       | 1         | 21.65                              | 21.75                          | 21.77                               |                        |             |
| 20              | 64QAM      | 1       | 1         | 19.98                              | 19.98                          | 19.88                               |                        |             |
| 20              | 256QAM     | 1       | 1         | 18.52                              | 18.53                          | 18.53                               | 21.5                   | 2.5         |
| Channel         |            |         |           | 134100                             | 136100                         | 138100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 670.5                              | 680.5                          | 690.5                               | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 22.78                              | 22.76                          | 22.80                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 133600                             | 136100                         | 138600                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 668                                | 680.5                          | 693                                 | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 22.67                              | 22.68                          | 22.71                               | 24.0                   | 0.0         |
| Channel         |            |         |           | 133100                             | 136100                         | 139100                              | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 665.5                              | 680.5                          | 695.5                               | 24.0                   | 0.0         |
| 5               | QPSK       | 1       | 1         | 22.71                              | 22.82                          | 22.67                               | 24.0                   | 0.0         |



| n38_Ant 1       |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 518004                | 519000                   | 519996                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2590.02               | 2595                     | 2599.98                |                     |          |  |
| 40              | PI2 BPSK   | 1       | 1         | 22.92                 | 22.90                    | 22.92                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 33        | 22.91                 | 22.82                    | 22.85                  |                     |          |  |
| 40              | PI2 BPSK   | 1       | 104       | 22.90                 | 22.83                    | 22.82                  | 23.5                | 0.5      |  |
| 40              | PI2 BPSK   | 50      | 0         | 22.81                 | 22.34                    | 22.20                  |                     |          |  |
| 40              | PI2 BPSK   | 50      | 28        | 22.86                 | 22.81                    | 22.77                  |                     |          |  |
| 40              | PI2 BPSK   | 50      | 56        | 22.80                 | 22.29                    | 22.29                  |                     |          |  |
| 40              | PI2 BPSK   | 100     | 0         | 22.48                 | 22.39                    | 22.36                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 1       | 1         | 22.96                 | 22.96                    | 22.85                  |                     |          |  |
| 40              | QPSK       | 1       | 33        | 22.89                 | 22.88                    | 22.82                  |                     |          |  |
| 40              | QPSK       | 1       | 104       | 22.95                 | 22.84                    | 22.76                  |                     |          |  |
| 40              | QPSK       | 50      | 0         | 21.83                 | 21.85                    | 21.81                  | 24.0                | 0.0      |  |
| 40              | QPSK       | 50      | 28        | 22.92                 | 22.95                    | 22.82                  |                     |          |  |
| 40              | QPSK       | 50      | 56        | 21.86                 | 21.84                    | 21.80                  |                     |          |  |
| 40              | QPSK       | 100     | 0         | 21.87                 | 21.88                    | 21.80                  |                     |          |  |
| 40              | 8QAM       | 1       | 1         | 22.23                 | 22.26                    | 22.15                  | 23.0                | 1.0      |  |
| 40              | 8QAM       | 1       | 1         | 20.92                 | 20.58                    | 20.60                  | 21.5                | 2.5      |  |
| 40              | 25QAM      | 1       | 1         | 18.70                 | 18.61                    | 18.52                  | 19.5                | 4.5      |  |
| Channel         |            |         |           | 517002                | 519000                   | 520998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2585.01               | 2595                     | 2604.99                | 24.0                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 22.80                 | 22.71                    | 22.89                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 516204                | 519000                   | 521000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2592.52               | 2595                     | 2607.48                |                     |          |  |
| 25              | QPSK       | 1       | 1         | 22.73                 | 22.82                    | 22.93                  |                     |          |  |
| Channel         |            |         |           | 516000                | 519000                   | 522000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2590                  | 2595                     | 2610                   | 24.0                | 0.0      |  |
| 20              | QPSK       | 1       | 1         | 22.96                 | 22.89                    | 22.72                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 515202                | 519000                   | 522000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2617.51               | 2595                     | 2612.49                |                     |          |  |
| 15              | QPSK       | 1       | 1         | 22.91                 | 22.87                    | 22.69                  |                     | 24.0     |  |
| Channel         |            |         |           | 515004                | 519000                   | 522996                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2575.02               | 2595                     | 2614.98                | 24.0                | 0.0      |  |
| 10              | QPSK       | 1       | 1         | 22.68                 | 22.59                    | 22.73                  | 24.0                | 0.0      |  |

| n41_Ant 0(FCC)  |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel         |            |         |           | 509202                | 518998                   | 528000                 | 24.0                | 0.0      |  |
| Frequency (MHz) |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100             | PI2 BPSK   | 1       | 1         | 22.56                 | 22.60                    | 22.55                  |                     |          |  |
| 100             | PI2 BPSK   | 1       | 137       | 22.51                 | 22.59                    | 22.52                  |                     |          |  |
| 100             | PI2 BPSK   | 1       | 271       | 22.54                 | 22.52                    | 22.57                  | 24.0                | 0.0      |  |
| 100             | PI2 BPSK   | 135     | 0         | 22.50                 | 22.52                    | 22.54                  |                     |          |  |
| 100             | PI2 BPSK   | 135     | 69        | 22.55                 | 22.54                    | 22.59                  |                     |          |  |
| 100             | PI2 BPSK   | 135     | 138       | 22.55                 | 22.53                    | 22.55                  |                     |          |  |
| 100             | PI2 BPSK   | 270     | 0         | 22.57                 | 22.60                    | 22.61                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 1       | 1         | 22.53                 | 22.62                    | 22.56                  |                     |          |  |
| 100             | QPSK       | 1       | 137       | 22.58                 | 22.55                    | 22.49                  |                     |          |  |
| 100             | QPSK       | 1       | 271       | 22.58                 | 22.59                    | 22.52                  |                     |          |  |
| 100             | QPSK       | 135     | 0         | 22.51                 | 22.53                    | 22.50                  | 24.0                | 0.0      |  |
| 100             | QPSK       | 135     | 69        | 22.50                 | 22.60                    | 22.54                  |                     |          |  |
| 100             | QPSK       | 135     | 138       | 22.50                 | 22.53                    | 22.52                  |                     |          |  |
| 100             | QPSK       | 270     | 0         | 22.48                 | 22.57                    | 22.50                  |                     | 24.0     |  |
| 100             | 16QAM      | 1       | 1         | 22.56                 | 22.58                    | 22.60                  | 24.0                | 0.0      |  |
| 100             | 8QAM       | 1       | 1         | 22.53                 | 22.58                    | 22.58                  | 24.0                | 0.0      |  |
| 100             | 25QAM      | 1       | 1         | 20.76                 | 20.75                    | 20.70                  | 22.5                | 1.5      |  |
| Channel         |            |         |           | 508200                | 518998                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2541                  | 2592.99                  | 2644.98                | 24.0                | 0.0      |  |
| 90              | QPSK       | 1       | 1         | 22.24                 | 22.42                    | 22.49                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 507204                | 518998                   | 529998                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2638.02               | 2592.99                  | 2649.99                |                     |          |  |
| 80              | QPSK       | 1       | 1         | 22.16                 | 22.26                    | 22.45                  |                     | 24.0     |  |
| Channel         |            |         |           | 506202                | 518998                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2531.01               | 2592.99                  | 2655                   | 24.0                | 0.0      |  |
| 70              | QPSK       | 1       | 1         | 22.17                 | 22.31                    | 22.39                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 505200                | 518998                   | 531998                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2626                  | 2592.99                  | 2665.98                |                     |          |  |
| 60              | QPSK       | 1       | 1         | 22.34                 | 22.52                    | 22.45                  |                     | 24.0     |  |
| Channel         |            |         |           | 504204                | 518998                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2521.02               | 2592.99                  | 2664.98                | 24.0                | 0.0      |  |
| 50              | QPSK       | 1       | 1         | 22.31                 | 22.24                    | 22.42                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 503202                | 518998                   | 534000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2616.01               | 2592.99                  | 2670                   |                     |          |  |
| 40              | QPSK       | 1       | 1         | 22.28                 | 22.25                    | 22.37                  |                     | 24.0     |  |
| Channel         |            |         |           | 502200                | 518998                   | 534998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2511                  | 2592.99                  | 2674.98                | 24.0                | 0.0      |  |
| 30              | QPSK       | 1       | 1         | 22.38                 | 22.30                    | 22.54                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 501204                | 518998                   | 535998                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2608.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20              | QPSK       | 1       | 1         | 22.16                 | 22.14                    | 22.36                  |                     | 24.0     |  |
| Channel         |            |         |           | 500700                | 518998                   | 536998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                | 2592.99                  | 2682.48                | 24.0                | 0.0      |  |
| 15              | QPSK       | 1       | 1         | 22.14                 | 22.48                    | 22.52                  | 24.0                | 0.0      |  |
| Channel         |            |         |           | 500202                | 518998                   | 537000                 |                     |          |  |
| Frequency (MHz) |            |         |           | 2601.01               | 2592.99                  | 2685                   |                     |          |  |
| 10              | QPSK       | 1       | 1         | 22.27                 | 22.42                    | 22.40                  |                     | 24.0     |  |

| n41(HPUE)_Ant 0(FCC) |            |         |           |                       |                          |                        |                     |          |  |
|----------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel              |            |         |           | 508202                | 518998                   | 528000                 | 27.0                | 0.0      |  |
| Frequency (MHz)      |            |         |           | 2546.01               | 2592.99                  | 2640                   |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 1         | 25.54                 | 25.57                    | 25.38                  |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 137       | 25.50                 | 25.55                    | 25.37                  |                     |          |  |
| 100                  | PI2 BPSK   | 1       | 271       | 25.47                 | 25.56                    | 25.36                  | 26.5                | 0.5      |  |
| 100                  | PI2 BPSK   | 135     | 0         | 25.02                 | 25.00                    | 24.88                  |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 69        | 25.50                 | 25.56                    | 25.29                  |                     |          |  |
| 100                  | PI2 BPSK   | 135     | 138       | 24.97                 | 25.01                    | 24.95                  |                     |          |  |
| 100                  | PI2 BPSK   | 270     | 0         | 24.95                 | 24.98                    | 24.94                  | 26.5                | 0.5      |  |
| 100                  | QPSK       | 1       | 1         | 25.55                 | 25.58                    | 25.40                  |                     |          |  |
| 100                  | QPSK       | 1       | 137       | 25.48                 | 25.54                    | 25.33                  |                     |          |  |
| 100                  | QPSK       | 1       | 271       | 25.36                 | 25.45                    | 25.30                  |                     |          |  |
| 100                  | QPSK       | 135     | 0         | 24.33                 | 24.54                    | 24.33                  | 27.0                | 0.0      |  |
| 100                  | QPSK       | 135     | 69        | 25.52                 | 25.55                    | 25.38                  |                     |          |  |
| 100                  | QPSK       | 135     | 138       | 24.41                 | 24.55                    | 24.31                  |                     |          |  |
| 100                  | QPSK       | 270     | 0         | 24.32                 | 24.58                    | 24.40                  |                     |          |  |
| 100                  | 16QAM      | 1       | 1         | 24.31                 | 24.46                    | 24.35                  | 26.0                | 1.0      |  |
| 100                  | 8QAM       | 1       | 1         | 22.82                 | 22.97                    | 22.89                  | 24.5                | 2.5      |  |
| 100                  | 25QAM      | 1       | 1         | 20.70                 | 20.81                    | 20.71                  | 22.5                | 4.5      |  |
| Channel              |            |         |           | 508200                | 518998                   | 528998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2541                  | 2592.99                  | 2644.98                | 24.0                | 0.0      |  |
| 90                   | QPSK       | 1       | 1         | 25.28                 | 25.22                    | 25.15                  | 27.0                | 0.0      |  |
| Channel              |            |         |           | 507204                | 518998                   | 529998                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2536.02               | 2592.99                  | 2649.99                |                     |          |  |
| 80                   | QPSK       | 1       | 1         | 25.34                 | 25.30                    | 25.20                  |                     | 27.0     |  |
| Channel              |            |         |           | 506202                | 518998                   | 531000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2531.01               | 2592.99                  | 2655                   | 24.0                | 0.0      |  |
| 70                   | QPSK       | 1       | 1         | 25.13                 | 25.30                    | 25.18                  | 27.0                | 0.0      |  |
| Channel              |            |         |           | 505200                | 518998                   | 531998                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2626                  | 2592.99                  | 2665.98                |                     |          |  |
| 60                   | QPSK       | 1       | 1         | 25.00                 | 25.10                    | 25.14                  |                     | 27.0     |  |
| Channel              |            |         |           | 504204                | 518998                   | 532998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2511.02               | 2592.99                  | 2641.98                | 24.0                | 0.0      |  |
| 50                   | QPSK       | 1       | 1         | 25.16                 | 25.18                    | 25.22                  | 27.0                | 0.0      |  |
| Channel              |            |         |           | 503202                | 518998                   | 534000                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2516.01               | 2592.99                  | 2620                   |                     |          |  |
| 40                   | QPSK       | 1       | 1         | 25.24                 | 25.46                    | 25.29                  |                     | 27.0     |  |
| Channel              |            |         |           | 502200                | 518998                   | 534998                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2511                  | 2592.99                  | 2674.98                | 24.0                | 0.0      |  |
| 30                   | QPSK       | 1       | 1         | 25.44                 | 25.39                    | 25.48                  | 27.0                | 0.0      |  |
| Channel              |            |         |           | 501205                | 518998                   | 535998                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2506.02               | 2592.99                  | 2679.99                |                     |          |  |
| 20                   | QPSK       | 1       | 1         | 25.35                 | 25.32                    | 25.12                  |                     | 27.0     |  |
| Channel              |            |         |           | 500700                | 518998                   | 536498                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)      |            |         |           | 2503.5                | 2592.99                  | 2662.48                | 24.0                | 0.0      |  |
| 15                   | QPSK       | 1       | 1         | 25.28                 | 25.34                    | 25.37                  | 27.0                | 0.0      |  |
| Channel              |            |         |           | 500200                | 518998                   | 537000                 |                     |          |  |
| Frequency (MHz)      |            |         |           | 2501.01               | 2592.99                  | 2655                   |                     |          |  |
| 10                   | QPSK       | 1       | 1         | 25.44                 | 25.44                    | 25.15                  |                     | 27.0     |  |

| n41_Ant 1(FCC) |            |         |           |                    |                       |                     |                     |          |  |
|----------------|------------|---------|-----------|--------------------|-----------------------|---------------------|---------------------|----------|--|
| BW [MHz]       | Modulation | RB Size | RB Offset | Power Low Co-Freq. | Power Middle Co-Freq. | Power High Co-Freq. | Time-up limit (dBm) | MPR (dB) |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 508020             | 518598                | 526000              |                     |          |  |
|                |            |         |           | 2546.01            | 2592.99               | 2640                |                     |          |  |
| 100            | PV2 BPSK   | 1       | 1         | 22.95              | 22.96                 | 22.89               |                     |          |  |
| 100            | PV2 BPSK   | 1       | 137       | 22.81              | 22.80                 | 22.78               | 24.0                | 0.0      |  |
| 100            | PV2 BPSK   | 1       | 271       | 22.79              | 22.77                 | 22.65               |                     |          |  |
| 100            | PV2 BPSK   | 135     | 0         | 22.75              | 22.88                 | 22.87               | 24.0                | 0.0      |  |
| 100            | PV2 BPSK   | 135     | 69        | 22.73              | 22.82                 | 22.79               | 24.0                | 0.0      |  |
| 100            | PV2 BPSK   | 135     | 138       | 22.72              | 22.74                 | 22.69               |                     |          |  |
| 100            | PV2 BPSK   | 270     | 0         | 22.56              | 22.70                 | 22.56               |                     |          |  |
| 100            | QPSK       | 1       | 1         | 22.97              | 22.99                 | 22.57               |                     |          |  |
| 100            | QPSK       | 1       | 137       | 22.68              | 22.80                 | 22.83               | 24.0                | 0.0      |  |
| 100            | QPSK       | 1       | 271       | 22.76              | 22.74                 | 22.75               |                     |          |  |
| 100            | QPSK       | 135     | 0         | 22.73              | 22.75                 | 22.79               | 24.0                | 0.0      |  |
| 100            | QPSK       | 135     | 69        | 22.94              | 22.98                 | 22.95               | 24.0                | 0.0      |  |
| 100            | QPSK       | 135     | 138       | 22.50              | 22.84                 | 22.55               |                     |          |  |
| 100            | QPSK       | 270     | 0         | 22.83              | 22.92                 | 22.80               | 24.0                | 0.0      |  |
| 100            | 16QAM      | 1       | 1         | 22.97              | 22.98                 | 22.91               | 24.0                | 0.0      |  |
| 100            | 84QAM      | 1       | 1         | 22.81              | 22.94                 | 22.87               | 24.0                | 0.0      |  |
| 100            | 256QAM     | 1       | 1         | 21.41              | 21.34                 | 21.23               | 22.5                | 1.5      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 508020             | 518598                | 526000              |                     |          |  |
|                |            |         |           | 2541               | 2592.99               | 2644.98             |                     |          |  |
| 90             | QPSK       | 1       | 1         | 22.72              | 22.83                 | 22.89               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 507204             | 518598                | 526098              |                     |          |  |
|                |            |         |           | 2536.02            | 2592.99               | 2646.99             |                     |          |  |
| 80             | QPSK       | 1       | 1         | 22.56              | 22.81                 | 22.61               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 508020             | 518598                | 531000              |                     |          |  |
|                |            |         |           | 2631.01            | 2692.99               | 2695                |                     |          |  |
| 70             | QPSK       | 1       | 1         | 22.71              | 22.71                 | 22.92               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 508020             | 518598                | 531096              |                     |          |  |
|                |            |         |           | 2526               | 2592.99               | 2659.98             |                     |          |  |
| 60             | QPSK       | 1       | 1         | 22.85              | 22.96                 | 22.70               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 508020             | 518598                | 532098              |                     |          |  |
|                |            |         |           | 2512.02            | 2692.99               | 2684.99             |                     |          |  |
| 50             | QPSK       | 1       | 1         | 22.87              | 22.65                 | 22.84               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 503022             | 518598                | 534000              |                     |          |  |
|                |            |         |           | 2516.01            | 2692.99               | 2670                |                     |          |  |
| 40             | QPSK       | 1       | 1         | 22.55              | 22.78                 | 22.95               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 502200             | 518598                | 534986              |                     |          |  |
|                |            |         |           | 2511               | 2692.99               | 2674.98             |                     |          |  |
| 30             | QPSK       | 1       | 1         | 22.63              | 22.67                 | 22.68               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 501024             | 518598                | 535998              |                     |          |  |
|                |            |         |           | 2506.02            | 2592.99               | 2679.99             |                     |          |  |
| 20             | QPSK       | 1       | 1         | 22.53              | 22.57                 | 22.96               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 500700             | 518598                | 536496              |                     |          |  |
|                |            |         |           | 2503               | 2592.99               | 2652.48             |                     |          |  |
| 15             | QPSK       | 1       | 1         | 22.49              | 22.48                 | 22.70               | 24.0                | 0.0      |  |
| Channel        |            |         |           |                    |                       |                     |                     |          |  |
|                |            |         |           | 500200             | 518598                | 537000              |                     |          |  |
|                |            |         |           | 2501.01            | 2592.99               | 2685                |                     |          |  |
| 10             | QPSK       | 1       | 1         | 22.54              | 22.83                 | 22.80               | 24.0                | 0.0      |  |

| n41(HPUe)_Ant 1(FCC) |            |         |           |                        |                           |                         |                        |             |  |
|----------------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|------------------------|-------------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq. | Power Middle<br>Ch. Freq. | Power High<br>Ch. Freq. | Time-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel              |            |         |           | 500020                 | 518598                    | 526000                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2546.01                | 2592.99                   | 2640                    |                        |             |  |
| 100                  | PV2 BPSK   | 1       | 1         | 25.92                  | 25.94                     | 25.76                   |                        |             |  |
| 100                  | PV2 BPSK   | 1       | 137       | 25.90                  | 25.81                     | 25.65                   | 27.0                   | 0.0         |  |
| 100                  | PV2 BPSK   | 1       | 271       | 25.81                  | 25.76                     | 25.73                   |                        |             |  |
| 100                  | QPSK       | 132     | 6         | 25.51                  | 25.39                     | 25.12                   | 26.5                   | 0.5         |  |
| 100                  | PV2 BPSK   | 132     | 69        | 25.30                  | 25.30                     | 25.73                   | 27.0                   | 0.0         |  |
| 100                  | PV2 BPSK   | 132     | 138       | 25.47                  | 25.20                     | 25.14                   |                        |             |  |
| 100                  | PV2 BPSK   | 270     | 0         | 25.47                  | 25.22                     | 25.13                   | 26.5                   | 0.5         |  |
| 100                  | QPSK       | 1       | 1         | 25.92                  | 25.95                     | 25.84                   |                        |             |  |
| 100                  | QPSK       | 1       | 137       | 25.91                  | 25.87                     | 25.67                   | 27.0                   | 0.0         |  |
| 100                  | QPSK       | 1       | 271       | 25.89                  | 25.75                     | 25.64                   |                        |             |  |
| 100                  | QPSK       | 132     | 6         | 24.89                  | 24.89                     | 25.64                   |                        |             |  |
| 100                  | QPSK       | 132     | 69        | 25.90                  | 25.92                     | 25.81                   | 27.0                   | 0.0         |  |
| 100                  | QPSK       | 132     | 138       | 24.96                  | 24.87                     | 24.74                   |                        |             |  |
| 100                  | QPSK       | 270     | 0         | 24.91                  | 24.84                     | 24.73                   | 26.0                   | 1.0         |  |
| 100                  | 16QAM      | 1       | 1         | 25.05                  | 25.02                     | 25.04                   | 26.0                   | 1.0         |  |
| 100                  | 84QAM      | 1       | 1         | 23.31                  | 23.41                     | 23.29                   | 24.5                   | 2.5         |  |
| 100                  | 256QAM     | 1       | 1         | 21.46                  | 21.50                     | 21.45                   | 22.5                   | 4.5         |  |
| Channel              |            |         |           | 501020                 | 518598                    | 525998                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2541                   | 2592.99                   | 2644.98                 |                        |             |  |
| 90                   | QPSK       | 1       | 1         | 25.62                  | 25.66                     | 25.53                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 507024                 | 518598                    | 526998                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2536.02                | 2592.99                   | 2649.99                 |                        |             |  |
| 80                   | QPSK       | 1       | 1         | 25.38                  | 25.71                     | 25.40                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 508020                 | 518598                    | 527000                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2631.01                | 2592.99                   | 2695                    |                        |             |  |
| 70                   | QPSK       | 1       | 1         | 25.50                  | 25.62                     | 25.48                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 509020                 | 518598                    | 531998                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2526                   | 2592.99                   | 2659.98                 |                        |             |  |
| 60                   | QPSK       | 1       | 1         | 25.53                  | 25.43                     | 25.60                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 510024                 | 518598                    | 532998                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2612.03                | 2592.99                   | 2684.99                 |                        |             |  |
| 50                   | QPSK       | 1       | 1         | 25.52                  | 25.65                     | 25.38                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 530022                 | 518598                    | 534000                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2516.01                | 2592.99                   | 2670                    |                        |             |  |
| 40                   | QPSK       | 1       | 1         | 25.67                  | 25.44                     | 25.57                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 532020                 | 518598                    | 534998                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2511                   | 2592.99                   | 2674.98                 |                        |             |  |
| 30                   | QPSK       | 1       | 1         | 25.22                  | 25.47                     | 25.40                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 531024                 | 518598                    | 535998                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2506.02                | 2592.99                   | 2679.99                 |                        |             |  |
| 20                   | QPSK       | 1       | 1         | 25.56                  | 25.47                     | 25.28                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 530700                 | 518598                    | 536998                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2503                   | 2592.99                   | 2652.98                 |                        |             |  |
| 15                   | QPSK       | 1       | 1         | 25.58                  | 25.71                     | 25.60                   | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 530022                 | 518598                    | 537000                  |                        |             |  |
| Frequency (MHz)      |            |         |           | 2501.01                | 2592.99                   | 2685                    |                        |             |  |
| 10                   | QPSK       | 1       | 1         | 25.36                  | 25.64                     | 25.36                   | 27.0                   | 0.0         |  |

| n41_Ant 2(FCC)  |            |         |           |                        |                           |                         |                        |             |  |
|-----------------|------------|---------|-----------|------------------------|---------------------------|-------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. Freq. | Power Middle<br>Ch. Freq. | Power High<br>Ch. Freq. | Time-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 508202                 | 518598                    | 528600                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2546.01                | 2592.99                   | 2640                    |                        |             |  |
| 100             | PQ2 BPSK   | 1       | 1         | 22.84                  | 22.84                     | 22.75                   |                        |             |  |
| 100             | PQ2 BPSK   | 1       | 137       | 22.80                  | 22.80                     | 22.70                   | 24.0                   | 0.0         |  |
| 100             | PQ2 BPSK   | 1       | 271       | 22.81                  | 22.78                     | 22.72                   |                        |             |  |
| 100             | PQ2 BPSK   | 155     | 0         | 22.82                  | 22.74                     | 22.67                   | 24.0                   | 0.0         |  |
| 100             | PQ2 BPSK   | 135     | 69        | 22.82                  | 22.74                     | 22.74                   | 24.0                   | 0.0         |  |
| 100             | PQ2 BPSK   | 135     | 138       | 22.80                  | 22.73                     | 22.63                   |                        |             |  |
| 100             | PQ2 BPSK   | 270     | 0         | 22.78                  | 22.75                     | 22.78                   |                        |             |  |
| 100             | QPSK       | 1       | 1         | 22.86                  | 22.88                     | 22.80                   |                        |             |  |
| 100             | QPSK       | 1       | 137       | 22.82                  | 22.76                     | 22.79                   | 24.0                   | 0.0         |  |
| 100             | QPSK       | 1       | 271       | 22.77                  | 22.83                     | 22.77                   |                        |             |  |
| 100             | QPSK       | 155     | 0         | 22.78                  | 22.86                     | 22.78                   | 24.0                   | 0.0         |  |
| 100             | QPSK       | 135     | 69        | 22.83                  | 22.78                     | 22.75                   | 24.0                   | 0.0         |  |
| 100             | QPSK       | 135     | 138       | 22.82                  | 22.71                     | 22.72                   |                        |             |  |
| 100             | QPSK       | 270     | 0         | 22.80                  | 22.84                     | 22.78                   | 24.0                   | 0.0         |  |
| 100             | 16QAM      | 1       | 1         | 22.81                  | 22.78                     | 22.79                   | 24.0                   | 0.0         |  |
| 100             | 84QAM      | 1       | 1         | 22.78                  | 22.79                     | 22.71                   | 24.0                   | 0.0         |  |
| 100             | 256QAM     | 1       | 1         | 21.36                  | 21.31                     | 21.25                   | 22.5                   | 1.5         |  |
| Channel         |            |         |           | 508202                 | 518598                    | 528600                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2546.01                | 2592.99                   | 2644.98                 |                        |             |  |
| 80              | QPSK       | 1       | 1         | 22.77                  | 22.67                     | 22.67                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 507204                 | 518598                    | 528698                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2536.02                | 2592.99                   | 2644.99                 |                        |             |  |
| 80              | QPSK       | 1       | 1         | 22.68                  | 22.63                     | 22.53                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 508202                 | 518598                    | 531900                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2631.03                | 2692.99                   | 2695                    |                        |             |  |
| 70              | QPSK       | 1       | 1         | 22.49                  | 22.62                     | 22.73                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 508200                 | 518598                    | 531996                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2526.02                | 2592.99                   | 2650.98                 |                        |             |  |
| 60              | QPSK       | 1       | 1         | 22.65                  | 22.55                     | 22.47                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 508202                 | 518598                    | 532998                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2631.03                | 2692.99                   | 2684.99                 |                        |             |  |
| 50              | QPSK       | 1       | 1         | 22.74                  | 22.85                     | 22.82                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 503202                 | 518598                    | 534000                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2516.01                | 2652.99                   | 2670                    |                        |             |  |
| 40              | QPSK       | 1       | 1         | 22.80                  | 22.70                     | 22.71                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 502200                 | 518598                    | 534996                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2511                   | 2692.80                   | 2674.98                 |                        |             |  |
| 30              | QPSK       | 1       | 1         | 22.63                  | 22.65                     | 22.78                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 501204                 | 518598                    | 535998                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2506.02                | 2592.99                   | 2678.99                 |                        |             |  |
| 20              | QPSK       | 1       | 1         | 22.48                  | 22.72                     | 22.67                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500700                 | 518598                    | 536496                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2503.03                | 2592.99                   | 2672.48                 |                        |             |  |
| 15              | QPSK       | 1       | 1         | 22.48                  | 22.59                     | 22.77                   | 24.0                   | 0.0         |  |
| Channel         |            |         |           | 500202                 | 518598                    | 537000                  |                        |             |  |
| Frequency (MHz) |            |         |           | 2501.01                | 2592.99                   | 2685                    |                        |             |  |
| 10              | QPSK       | 1       | 1         | 22.72                  | 22.77                     | 22.57                   | 24.0                   | 0.0         |  |



| n41(HPUE)_Ant 2(FCC) |            |         |           |                             |                                |                              |                        |             |  |
|----------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel              |            |         |           | 509202                      | 518998                         | 528000                       |                        |             |  |
| Frequency (MHz)      |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |  |
| 100                  | P12 BPSK   | 1       | 1         | 25.79                       | 25.63                          | 25.74                        |                        |             |  |
| 100                  | P12 BPSK   | 1       | 137       | 25.72                       | 25.77                          | 25.71                        | 27.0                   | 0.0         |  |
| 100                  | P12 BPSK   | 1       | 271       | 25.74                       | 25.74                          | 25.70                        |                        |             |  |
| 100                  | P12 BPSK   | 135     | 0         | 25.46                       | 25.31                          | 25.20                        | 26.5                   | 0.5         |  |
| 100                  | P12 BPSK   | 135     | 69        | 25.77                       | 25.79                          | 25.70                        | 27.0                   | 0.0         |  |
| 100                  | P12 BPSK   | 135     | 138       | 25.41                       | 25.33                          | 25.16                        |                        |             |  |
| 100                  | P12 BPSK   | 270     | 0         | 25.36                       | 25.27                          | 25.22                        | 26.5                   | 0.5         |  |
| 100                  | QPSK       | 1       | 1         | 25.60                       | 25.65                          | 25.76                        |                        |             |  |
| 100                  | QPSK       | 1       | 137       | 25.76                       | 25.69                          | 25.65                        | 27.0                   | 0.0         |  |
| 100                  | QPSK       | 1       | 271       | 25.72                       | 25.83                          | 25.75                        |                        |             |  |
| 100                  | QPSK       | 135     | 0         | 24.69                       | 24.85                          | 24.63                        |                        |             |  |
| 100                  | QPSK       | 135     | 69        | 25.76                       | 25.63                          | 25.74                        | 27.0                   | 0.0         |  |
| 100                  | QPSK       | 135     | 138       | 24.66                       | 24.82                          | 24.60                        |                        |             |  |
| 100                  | QPSK       | 270     | 0         | 24.69                       | 24.64                          | 24.63                        | 26.0                   | 1.0         |  |
| 100                  | 16QAM      | 1       | 1         | 24.36                       | 24.36                          | 24.37                        | 26.0                   | 1.0         |  |
| 100                  | 64QAM      | 1       | 1         | 23.19                       | 23.32                          | 23.12                        | 24.5                   | 2.5         |  |
| 100                  | 256QAM     | 1       | 1         | 21.38                       | 21.46                          | 21.29                        | 22.5                   | 4.5         |  |
| Channel              |            |         |           | 508200                      | 518998                         | 528998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |  |
| 90                   | QPSK       | 1       | 1         | 25.66                       | 25.73                          | 25.78                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 507204                      | 518998                         | 529998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2536.02                     | 2592.99                        | 2649.98                      |                        |             |  |
| 80                   | QPSK       | 1       | 1         | 25.42                       | 25.61                          | 25.82                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 506202                      | 518998                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |  |
| 70                   | QPSK       | 1       | 1         | 25.62                       | 25.68                          | 25.55                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 505200                      | 518998                         | 531998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2526                        | 2592.99                        | 2659.98                      |                        |             |  |
| 60                   | QPSK       | 1       | 1         | 25.71                       | 25.59                          | 25.66                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 504204                      | 518998                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |  |
| 50                   | QPSK       | 1       | 1         | 25.47                       | 25.69                          | 25.55                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 503202                      | 518998                         | 534000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2516.01                     | 2592.99                        | 2670                         |                        |             |  |
| 40                   | QPSK       | 1       | 1         | 25.38                       | 25.59                          | 25.62                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 502200                      | 518998                         | 534998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |  |
| 30                   | QPSK       | 1       | 1         | 25.42                       | 25.70                          | 25.64                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 501204                      | 518998                         | 535998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2506.02                     | 2592.99                        | 2679.99                      |                        |             |  |
| 20                   | QPSK       | 1       | 1         | 25.42                       | 25.60                          | 25.70                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 500700                      | 518998                         | 536498                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2503.5                      | 2592.99                        | 2662.48                      |                        |             |  |
| 15                   | QPSK       | 1       | 1         | 25.67                       | 25.46                          | 25.61                        | 27.0                   | 0.0         |  |
| Channel              |            |         |           | 500202                      | 518998                         | 537000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)      |            |         |           | 2501.01                     | 2592.99                        | 2665                         |                        |             |  |
| 10                   | QPSK       | 1       | 1         | 25.73                       | 25.50                          | 25.69                        | 27.0                   | 0.0         |  |

| n41_Ant 4(FCC)  |            |         |           |                             |                                |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 509202                      | 518998                         | 528000                       |                        |             |  |
| Frequency (MHz) |            |         |           | 2546.01                     | 2592.99                        | 2640                         |                        |             |  |
| 100             | P12 BPSK   | 1       | 1         | 20.26                       | 20.32                          | 20.22                        |                        |             |  |
| 100             | P12 BPSK   | 1       | 137       | 20.22                       | 20.20                          | 20.16                        | 21.0                   | 0.0         |  |
| 100             | P12 BPSK   | 1       | 271       | 20.14                       | 20.27                          | 20.04                        |                        |             |  |
| 100             | P12 BPSK   | 135     | 0         | 20.08                       | 20.23                          | 20.10                        | 21.0                   | 0.0         |  |
| 100             | P12 BPSK   | 135     | 69        | 20.22                       | 20.29                          | 20.20                        | 21.0                   | 0.0         |  |
| 100             | P12 BPSK   | 135     | 138       | 20.11                       | 20.14                          | 20.14                        |                        |             |  |
| 100             | P12 BPSK   | 270     | 0         | 20.16                       | 20.20                          | 20.16                        | 21.0                   | 0.0         |  |
| 100             | QPSK       | 1       | 1         | 20.26                       | 20.39                          | 20.24                        |                        |             |  |
| 100             | QPSK       | 1       | 137       | 20.15                       | 20.16                          | 20.11                        | 21.0                   | 0.0         |  |
| 100             | QPSK       | 1       | 271       | 20.20                       | 20.28                          | 20.15                        |                        |             |  |
| 100             | QPSK       | 135     | 0         | 20.20                       | 20.22                          | 20.07                        |                        |             |  |
| 100             | QPSK       | 135     | 69        | 20.26                       | 20.36                          | 20.21                        | 21.0                   | 0.0         |  |
| 100             | QPSK       | 135     | 138       | 20.13                       | 20.17                          | 20.12                        |                        |             |  |
| 100             | QPSK       | 270     | 0         | 20.22                       | 20.34                          | 20.18                        | 21.0                   | 0.0         |  |
| 100             | 16QAM      | 1       | 1         | 20.14                       | 20.30                          | 20.17                        | 21.0                   | 0.0         |  |
| 100             | 64QAM      | 1       | 1         | 20.21                       | 20.24                          | 20.05                        | 21.0                   | 0.0         |  |
| 100             | 256QAM     | 1       | 1         | 20.07                       | 20.23                          | 20.09                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 508200                      | 518998                         | 528998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2541                        | 2592.99                        | 2644.98                      |                        |             |  |
| 90              | QPSK       | 1       | 1         | 19.92                       | 20.18                          | 20.23                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 507204                      | 518998                         | 529998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2536.02                     | 2592.99                        | 2649.98                      |                        |             |  |
| 80              | QPSK       | 1       | 1         | 19.84                       | 20.23                          | 20.26                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 506202                      | 518998                         | 531000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2531.01                     | 2592.99                        | 2655                         |                        |             |  |
| 70              | QPSK       | 1       | 1         | 19.84                       | 19.90                          | 20.01                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 505200                      | 518998                         | 531998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2526                        | 2592.99                        | 2659.98                      |                        |             |  |
| 60              | QPSK       | 1       | 1         | 19.89                       | 19.97                          | 20.19                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 504204                      | 518998                         | 532998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2521.02                     | 2592.99                        | 2664.99                      |                        |             |  |
| 50              | QPSK       | 1       | 1         | 19.84                       | 20.15                          | 20.01                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 503202                      | 518998                         | 534000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2516.01                     | 2592.99                        | 2670                         |                        |             |  |
| 40              | QPSK       | 1       | 1         | 19.99                       | 20.18                          | 20.10                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 502200                      | 518998                         | 534998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2511                        | 2592.99                        | 2674.98                      |                        |             |  |
| 30              | QPSK       | 1       | 1         | 19.90                       | 20.23                          | 20.28                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 501204                      | 518998                         | 535998                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2506.02                     | 2592.99                        | 2679.99                      |                        |             |  |
| 20              | QPSK       | 1       | 1         | 19.85                       | 20.08                          | 20.25                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 500700                      | 518998                         | 536498                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2503.5                      | 2592.99                        | 2662.48                      |                        |             |  |
| 15              | QPSK       | 1       | 1         | 19.85                       | 20.07                          | 20.10                        | 21.0                   | 0.0         |  |
| Channel         |            |         |           | 500202                      | 518998                         | 537000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2501.01                     | 2592.99                        | 2665                         |                        |             |  |
| 10              | QPSK       | 1       | 1         | 19.83                       | 19.97                          | 20.17                        | 21.0                   | 0.0         |  |

| n41(HPUE)_Ant 4(FCC) |            |         |           |                          |                             |                           |                        |             |      |
|----------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|------|
| BW [MHz]             | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Channel              |            |         |           | 509202                   | 518998                      | 528000                    |                        |             |      |
| Frequency (MHz)      |            |         |           | 2546.01                  | 2592.99                     | 2640                      |                        |             |      |
| 100                  | P12 BPSK   | 1       | 1         | 23.14                    | 23.36                       | 23.21                     |                        |             |      |
| 100                  | P12 BPSK   | 1       | 137       | 23.04                    | 22.87                       | 23.00                     | 24.0                   | 0.0         |      |
| 100                  | P12 BPSK   | 1       | 271       | 23.07                    | 23.21                       | 23.14                     |                        |             |      |
| 100                  | P12 BPSK   | 135     | 0         | 22.86                    | 23.02                       | 22.95                     | 24.0                   | 0.0         |      |
| 100                  | P12 BPSK   | 135     | 69        | 23.10                    | 23.29                       | 23.16                     | 24.0                   | 0.0         |      |
| 100                  | P12 BPSK   | 135     | 138       | 23.06                    | 23.16                       | 23.03                     |                        |             |      |
| 100                  | P12 BPSK   | 270     | 0         | 23.00                    | 23.09                       | 23.01                     |                        |             |      |
| 100                  | QPSK       | 1       | 1         | 23.19                    | 23.40                       | 23.24                     |                        |             |      |
| 100                  | QPSK       | 1       | 137       | 23.08                    | 22.96                       | 23.20                     | 24.0                   | 0.0         |      |
| 100                  | QPSK       | 1       | 271       | 23.11                    | 23.13                       | 23.16                     |                        |             |      |
| 100                  | QPSK       | 135     | 0         | 23.00                    | 22.93                       | 23.06                     |                        |             |      |
| 100                  | QPSK       | 135     | 69        | 23.17                    | 23.37                       | 23.21                     | 24.0                   | 0.0         |      |
| 100                  | QPSK       | 135     | 138       | 22.94                    | 23.00                       | 23.02                     |                        |             |      |
| 100                  | QPSK       | 270     | 0         | 23.15                    | 23.27                       | 23.19                     | 24.0                   | 0.0         |      |
| 100                  | 16QAM      | 1       | 1         | 22.82                    | 22.96                       | 22.88                     | 24.0                   | 0.0         |      |
| 100                  | 64QAM      | 1       | 1         | 21.05                    | 21.21                       | 21.19                     | 22.5                   | 1.5         |      |
| 100                  | 256QAM     | 1       | 1         | 16.97                    | 20.24                       | 20.18                     | 21.0                   | 3.0         |      |
| Channel              |            |         |           | 509200                   | 518998                      | 528000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2541                     | 2592.99                     | 2644.98                   |                        |             |      |
| 90                   | QPSK       | 1       | 1         | 23.27                    | 23.25                       | 23.18                     | 24.0                   | MPR         | (dB) |
| Channel              |            |         |           | 507204                   | 518998                      | 529998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2536.02                  | 2592.99                     | 2649.99                   |                        |             |      |
| 80                   | QPSK       | 1       | 1         | 23.33                    | 23.36                       | 23.31                     | 24.0                   | 0.0         |      |
| Channel              |            |         |           | 509228                   | 518998                      | 531000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2631.01                  | 2592.99                     | 2655                      |                        |             |      |
| 70                   | QPSK       | 1       | 1         | 23.09                    | 23.32                       | 23.35                     | 24.0                   | 0.0         |      |
| Channel              |            |         |           | 505206                   | 518998                      | 531996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2526                     | 2592.99                     | 2659.98                   |                        |             |      |
| 60                   | QPSK       | 1       | 1         | 23.30                    | 23.28                       | 23.03                     | 24.0                   | 0.0         |      |
| Channel              |            |         |           | 509234                   | 518998                      | 530998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2621.02                  | 2592.99                     | 2664.98                   |                        |             |      |
| 50                   | QPSK       | 1       | 1         | 23.31                    | 23.10                       | 23.04                     | 24.0                   | 0.0         |      |
| Channel              |            |         |           | 503202                   | 518998                      | 534000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2516.01                  | 2592.99                     | 2670                      |                        |             |      |
| 40                   | QPSK       | 1       | 1         | 23.30                    | 23.19                       | 23.17                     | 24.0                   | 0.0         |      |
| Channel              |            |         |           | 502200                   | 518998                      | 534996                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2511                     | 2592.99                     | 2674.98                   |                        |             |      |
| 30                   | QPSK       | 1       | 1         | 23.36                    | 23.19                       | 22.88                     | 24.0                   | 0.0         |      |
| Channel              |            |         |           | 501204                   | 518998                      | 535998                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2506.02                  | 2592.99                     | 2679.99                   |                        |             |      |
| 20                   | QPSK       | 1       | 1         | 23.30                    | 23.22                       | 22.92                     | 24.0                   | 0.0         |      |
| Channel              |            |         |           | 500700                   | 518998                      | 536496                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2501.5                   | 2592.99                     | 2679.98                   |                        |             |      |
| 15                   | QPSK       | 1       | 1         | 23.16                    | 23.24                       | 23.17                     | 24.0                   | 0.0         |      |
| Channel              |            |         |           | 500202                   | 518998                      | 537000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |      |
| Frequency (MHz)      |            |         |           | 2501.01                  | 2592.99                     | 2685                      |                        |             |      |
| 10                   | QPSK       | 1       | 1         | 23.29                    | 23.19                       | 23.10                     | 24.0                   | 0.0         |      |



Part96\_n48\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 638000                      | 641666                         | 645332                       |                        |             |
| Frequency (MHz) |            |         |           | 3570                        | 3624.99                        | 3679.98                      |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 18.23                       | 18.47                          | 18.50                        |                        |             |
| 40              | PI2 BPSK   | 1       | 53        | 18.41                       | 18.51                          | 18.53                        | 19.5                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 104       | 18.50                       | 18.52                          | 18.16                        | 19.5                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 0         | 18.40                       | 18.60                          | 18.48                        | 19.5                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 28        | 18.51                       | 18.66                          | 18.49                        | 19.5                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 56        | 18.28                       | 18.64                          | 18.37                        | 19.5                   | 0.0         |
| 40              | PI2 BPSK   | 100     | 0         | 18.17                       | 18.44                          | 18.14                        | 19.5                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 18.59                       | 18.66                          | 18.43                        |                        |             |
| 40              | QPSK       | 1       | 63        | 18.47                       | 18.58                          | 18.33                        |                        |             |
| 40              | QPSK       | 1       | 104       | 18.56                       | 18.49                          | 18.27                        |                        |             |
| 40              | QPSK       | 50      | 0         | 18.38                       | 18.62                          | 18.27                        |                        |             |
| 40              | QPSK       | 50      | 28        | 18.57                       | 18.64                          | 18.40                        |                        |             |
| 40              | QPSK       | 50      | 56        | 18.15                       | 18.45                          | 18.27                        |                        |             |
| 40              | QPSK       | 100     | 0         | 18.33                       | 18.63                          | 18.50                        | 19.5                   | 0.0         |
| 40              | IQAM       | 1       | 1         | 18.21                       | 18.43                          | 18.21                        | 19.5                   | 0.0         |
| 40              | IQAM       | 1       | 1         | 18.54                       | 18.53                          | 18.28                        | 19.5                   | 0.0         |
| 40              | 256QAM     | 1       | 1         | 18.21                       | 18.57                          | 18.33                        | 19.5                   | 0.0         |
| Channel         |            |         |           | 637868                      | 641666                         | 645666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565.02                     | 3624.99                        | 3684.99                      | 19.5                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 18.16                       | 18.42                          | 18.33                        | 19.5                   | 0.0         |
| Channel         |            |         |           | 637334                      | 641666                         | 646000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3560.01                     | 3624.99                        | 3690                         | 19.5                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 18.31                       | 18.36                          | 18.46                        | 19.5                   | 0.0         |
| Channel         |            |         |           | 637168                      | 641666                         | 646166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.52                     | 3624.99                        | 3692.49                      | 19.5                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 18.41                       | 18.64                          | 18.17                        | 19.5                   | 0.0         |
| Channel         |            |         |           | 637000                      | 641666                         | 646332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565                        | 3624.99                        | 3694.98                      | 19.5                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 18.34                       | 18.44                          | 18.19                        | 19.5                   | 0.0         |

Part96\_n48\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 638000                      | 641666                         | 645332                       |                        |             |
| Frequency (MHz) |            |         |           | 3570                        | 3624.99                        | 3679.98                      |                        |             |
| 40              | PI2 BPSK   | 1       | 1         | 22.95                       | 23.07                          | 22.82                        |                        |             |
| 40              | PI2 BPSK   | 1       | 53        | 22.92                       | 23.02                          | 22.84                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 1       | 104       | 22.88                       | 22.98                          | 22.63                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 0         | 22.86                       | 22.95                          | 22.61                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 28        | 22.93                       | 23.05                          | 22.79                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 50      | 56        | 22.91                       | 23.00                          | 22.56                        | 24.0                   | 0.0         |
| 40              | PI2 BPSK   | 100     | 0         | 22.90                       | 23.02                          | 22.77                        | 24.0                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 22.98                       | 23.10                          | 22.84                        |                        |             |
| 40              | QPSK       | 1       | 53        | 22.89                       | 23.04                          | 22.71                        |                        |             |
| 40              | QPSK       | 1       | 104       | 22.90                       | 23.00                          | 22.67                        |                        |             |
| 40              | QPSK       | 50      | 0         | 22.92                       | 22.95                          | 22.73                        |                        |             |
| 40              | QPSK       | 50      | 28        | 22.96                       | 23.07                          | 22.81                        |                        |             |
| 40              | QPSK       | 50      | 56        | 22.87                       | 23.02                          | 22.68                        |                        |             |
| 40              | QPSK       | 100     | 0         | 22.94                       | 23.05                          | 22.78                        | 24.0                   | 0.0         |
| 40              | IQAM       | 1       | 1         | 22.95                       | 22.99                          | 22.75                        | 24.0                   | 0.0         |
| 40              | IQAM       | 1       | 1         | 21.13                       | 21.28                          | 21.02                        | 22.5                   | 1.5         |
| 40              | 256QAM     | 1       | 1         | 19.38                       | 19.45                          | 19.33                        | 20.5                   | 3.5         |
| Channel         |            |         |           | 637868                      | 641666                         | 645666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565.02                     | 3624.99                        | 3684.99                      | 24.0                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 22.94                       | 22.97                          | 22.95                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 637334                      | 641666                         | 646000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3560.01                     | 3624.99                        | 3690                         | 24.0                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 22.97                       | 22.99                          | 22.80                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 637168                      | 641666                         | 646166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3557.52                     | 3624.99                        | 3692.49                      | 24.0                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 22.94                       | 22.98                          | 22.93                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 637000                      | 641666                         | 646332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3565                        | 3624.99                        | 3694.98                      | 24.0                   | 0.0         |
| 10              | QPSK       | 1       | 1         | 22.91                       | 22.97                          | 22.86                        | 24.0                   | 0.0         |

Part27Q\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633000                      | 633332                         | 633666                       |                        |             |
| Frequency (MHz) |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 17.67                       | 17.67                          | 17.61                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 17.61                       | 17.61                          | 17.64                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 221       | 17.64                       | 17.64                          | 17.61                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 0         | 17.68                       | 17.68                          | 17.61                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 69        | 17.71                       | 17.71                          | 17.61                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 17.61                       | 17.61                          | 17.61                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 17.72                       | 17.72                          | 17.61                        | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         | 17.73                       | 17.73                          | 17.61                        |                        |             |
| 100             | QPSK       | 1       | 137       | 17.67                       | 17.67                          | 17.61                        |                        |             |
| 100             | QPSK       | 1       | 221       | 17.73                       | 17.73                          | 17.61                        |                        |             |
| 100             | QPSK       | 135     | 0         | 17.68                       | 17.71                          | 17.61                        |                        |             |
| 100             | QPSK       | 135     | 69        | 17.71                       | 17.71                          | 17.61                        |                        |             |
| 100             | QPSK       | 135     | 138       | 17.62                       | 17.62                          | 17.61                        |                        |             |
| 100             | QPSK       | 270     | 0         | 17.68                       | 17.68                          | 17.61                        | 18.5                   | 0.0         |
| 100             | IQAM       | 1       | 1         | 17.72                       | 17.72                          | 17.61                        | 18.5                   | 0.0         |
| 100             | IQAM       | 1       | 1         | 17.61                       | 17.61                          | 17.61                        | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 17.55                       | 17.55                          | 17.61                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633332                         | 633666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3495                        | 3499.98                        | 3504.99                      | 18.5                   | 0.0         |
| 90              | QPSK       | 1       | 1         | 17.71                       | 17.68                          | 17.70                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632666                      | 633332                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480.02                     | 3499.98                        | 3510                         | 18.5                   | 0.0         |
| 80              | QPSK       | 1       | 1         | 17.72                       | 17.29                          | 17.45                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633332                         | 634332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      | 18.5                   | 0.0         |
| 70              | QPSK       | 1       | 1         | 17.70                       | 17.24                          | 17.61                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633332                         | 634666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3480                        | 3499.98                        | 3519.99                      | 18.5                   | 0.0         |
| 60              | QPSK       | 1       | 1         | 17.53                       | 17.52                          | 17.54                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633332                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3475.02                     | 3499.98                        | 3525                         | 18.5                   | 0.0         |
| 50              | QPSK       | 1       | 1         | 17.64                       | 17.52                          | 17.56                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      | 18.5                   | 0.0         |
| 40              | QPSK       | 1       | 1         | 17.66                       | 17.21                          | 17.64                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3465                        | 3499.98                        | 3534.99                      | 18.5                   | 0.0         |
| 30              | QPSK       | 1       | 1         | 17.50                       | 17.42                          | 17.68                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630634                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.01                     | 3499.98                        | 3537.42                      | 18.5                   | 0.0         |
| 25              | QPSK       | 1       | 1         | 17.44                       | 17.35                          | 17.50                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3460.02                     | 3499.98                        | 3540                         | 18.5                   | 0.0         |
| 20              | QPSK       | 1       | 1         | 17.55                       | 17.54                          | 17.63                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      | 18.5                   | 0.0         |
| 15              | QPSK       | 1       | 1         | 17.48                       | 17.26                          | 17.42                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
| Frequency (MHz) |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      | 18.5                   | 0.0         |
| 10              | PI2 BPSK   | 1       | 1         | 17.47                       | 17.53                          | 17.66                        | 18.5                   | 0.0         |



Part27Q\_n77(HPUE)\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 20.80                       |                                |                              | 21.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 20.76                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 20.76                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 20.71                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 20.73                       |                                |                              | 21.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 20.76                       |                                |                              | 21.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 20.67                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 20.87                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 137       | 20.73                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 20.80                       |                                |                              | 21.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 20.71                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 20.85                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 138       | 20.67                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 20.81                       |                                |                              | 21.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 20.80                       |                                |                              | 21.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 20.76                       |                                |                              | 21.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 20.50                       |                                |                              | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 90              | QPSK       | 1       | 1         | 20.62                       | 20.76                          | 20.85                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 80              | QPSK       | 1       | 1         | 20.45                       | 20.73                          | 20.86                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 70              | QPSK       | 1       | 1         | 20.39                       | 20.72                          | 20.70                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 60              | QPSK       | 1       | 1         | 20.58                       | 20.83                          | 20.64                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 50              | QPSK       | 1       | 1         | 20.56                       | 20.81                          | 20.57                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 40              | QPSK       | 1       | 1         | 20.56                       | 20.50                          | 20.65                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 30              | QPSK       | 1       | 1         | 20.66                       | 20.72                          | 20.68                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 25              | QPSK       | 1       | 1         | 20.41                       | 20.84                          | 20.66                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 20              | QPSK       | 1       | 1         | 20.43                       | 20.82                          | 20.70                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 15              | QPSK       | 1       | 1         | 20.56                       | 20.82                          | 20.67                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 10              | PI2 BPSK   | 1       | 1         | 20.67                       | 20.77                          | 20.61                        | 21.5                   | 0.0         |

Part27O\_n77\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 17.38                       | 17.51                          | 17.22                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 17.43                       | 17.63                          | 17.48                        |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 17.52                       | 17.63                          | 17.52                        |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 17.34                       | 17.54                          | 17.38                        |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 17.40                       | 17.59                          | 17.38                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 17.33                       | 17.52                          | 17.42                        | 18.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 17.44                       | 17.57                          | 17.45                        |                        |             |
| 100             | QPSK       | 1       | 1         | 17.64                       | 17.67                          | 17.62                        |                        |             |
| 100             | QPSK       | 1       | 137       | 17.43                       | 17.62                          | 17.37                        |                        |             |
| 100             | QPSK       | 1       | 271       | 17.45                       | 17.56                          | 17.41                        | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 17.36                       | 17.53                          | 17.43                        |                        |             |
| 100             | QPSK       | 135     | 69        | 17.60                       | 17.65                          | 17.56                        |                        |             |
| 100             | QPSK       | 135     | 138       | 17.37                       | 17.51                          | 17.38                        |                        |             |
| 100             | QPSK       | 270     | 0         | 17.40                       | 17.63                          | 17.50                        | 18.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 17.36                       | 17.51                          | 17.26                        | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 17.30                       | 17.45                          | 17.35                        | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 17.28                       | 17.47                          | 17.27                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 90              | QPSK       | 1       | 1         | 17.57                       | 17.61                          | 17.46                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 80              | QPSK       | 1       | 1         | 17.65                       | 17.51                          | 17.38                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 70              | QPSK       | 1       | 1         | 17.53                       | 17.46                          | 17.43                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 60              | QPSK       | 1       | 1         | 17.57                       | 17.46                          | 17.47                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 50              | QPSK       | 1       | 1         | 17.66                       | 17.50                          | 17.58                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 40              | QPSK       | 1       | 1         | 17.64                       | 17.64                          | 17.60                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 30              | QPSK       | 1       | 1         | 17.46                       | 17.41                          | 17.57                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 25              | QPSK       | 1       | 1         | 17.46                       | 17.64                          | 17.60                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 20              | QPSK       | 1       | 1         | 17.61                       | 17.46                          | 17.66                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 15              | QPSK       | 1       | 1         | 17.38                       | 17.66                          | 17.40                        | 18.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 10              | PI2 BPSK   | 1       | 1         | 17.64                       | 17.40                          | 17.67                        | 18.5                   | 0.0         |

Part27O\_n77(HPUE)\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 20.22                       | 20.46                          | 20.44                        | 21.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 20.56                       | 20.66                          | 20.54                        |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 20.55                       | 20.62                          | 20.52                        |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 20.39                       | 20.49                          | 20.26                        |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 20.51                       | 20.62                          | 20.52                        | 21.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 20.32                       | 20.46                          | 20.26                        | 21.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 20.37                       | 20.58                          | 20.41                        |                        |             |
| 100             | QPSK       | 1       | 1         | 20.56                       | 20.66                          | 20.55                        |                        |             |
| 100             | QPSK       | 1       | 137       | 20.36                       | 20.56                          | 20.53                        |                        |             |
| 100             | QPSK       | 1       | 271       | 20.37                       | 20.62                          | 20.49                        | 21.5                   | 0.0         |
| 100             | QPSK       | 135     | 0         | 20.46                       | 20.62                          | 20.41                        |                        |             |
| 100             | QPSK       | 135     | 69        | 20.47                       | 20.65                          | 20.51                        |                        |             |
| 100             | QPSK       | 135     | 138       | 20.40                       | 20.57                          | 20.36                        |                        |             |
| 100             | QPSK       | 270     | 0         | 20.42                       | 20.63                          | 20.50                        | 21.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 20.46                       | 20.52                          | 20.39                        | 21.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         | 20.29                       | 20.45                          | 20.35                        | 21.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 20.28                       | 20.47                          | 20.24                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 90              | QPSK       | 1       | 1         | 20.54                       | 20.54                          | 20.33                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 80              | QPSK       | 1       | 1         | 20.45                       | 20.48                          | 20.63                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 70              | QPSK       | 1       | 1         | 20.48                       | 20.40                          | 20.45                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 60              | QPSK       | 1       | 1         | 20.51                       | 20.61                          | 20.31                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 50              | QPSK       | 1       | 1         | 20.54                       | 20.45                          | 20.53                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 40              | QPSK       | 1       | 1         | 20.43                       | 20.43                          | 20.44                        | 21.5                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           |                             |                                |                              |                        |             |
| 30              | QPSK       | 1       | 1         | 20.63                       | 20.43                          | 20.52                        | 21.5                   | 0.0         |



Part27Q\_n78\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633332                      |                                |                              | 18.5                   | 0.0         |
| Frequency (MHz) |            |         |           | 3499.98                     |                                |                              |                        |             |
| 100             | Pi2 BPSK   | 1       | 1         |                             | 17.53                          |                              | 18.5                   | 0.0         |
| 100             | Pi2 BPSK   | 1       | 137       |                             | 17.59                          |                              |                        |             |
| 100             | Pi2 BPSK   | 1       | 271       |                             | 17.62                          |                              |                        |             |
| 100             | Pi2 BPSK   | 135     | 0         |                             | 17.68                          |                              |                        |             |
| 100             | Pi2 BPSK   | 135     | 69        |                             | 17.81                          |                              | 18.5                   | 0.0         |
| 100             | Pi2 BPSK   | 135     | 138       |                             | 17.51                          |                              | 18.5                   | 0.0         |
| 100             | Pi2 BPSK   | 270     | 0         |                             | 17.66                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 17.71                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 137       |                             | 17.62                          |                              |                        |             |
| 100             | QPSK       | 1       | 271       |                             | 17.68                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.58                          |                              |                        |             |
| 100             | QPSK       | 135     | 69        |                             | 17.69                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.57                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 17.67                          |                              | 18.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 17.66                          |                              | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.58                          |                              | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.62                          |                              | 18.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 17.87                       | 17.50                          | 17.42                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632666                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480.02                     | 3500.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 17.82                       | 17.28                          | 17.46                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 17.42                       | 17.28                          | 17.41                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 17.55                       | 17.53                          | 17.67                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 17.43                       | 17.40                          | 17.34                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 17.83                       | 17.41                          | 17.59                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3499.98                        | 3534.99                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 17.88                       | 17.45                          | 17.41                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630634                      | 633332                         | 635832                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3462.51                     | 3499.98                        | 3537.48                      | (dBm)                  | (dB)        |
| 25              | QPSK       | 1       | 1         | 17.81                       | 17.43                          | 17.41                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3499.98                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 17.70                       | 17.42                          | 17.37                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630500                      | 633332                         | 636168                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 17.89                       | 17.46                          | 17.61                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      | (dBm)                  | (dB)        |
| 10              | Pi2 BPSK   | 1       | 1         | 17.88                       | 17.55                          | 17.36                        | 18.5                   | 0.0         |

Part27O\_n78\_Ant 3

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 650000                         |                              | 18.5                   | 0.0         |
| Frequency (MHz) |            |         |           |                             | 3750                           |                              |                        |             |
| 100             | Pi2 BPSK   | 1       | 1         |                             | 17.22                          |                              | 18.5                   | 0.0         |
| 100             | Pi2 BPSK   | 1       | 137       |                             | 17.44                          |                              |                        |             |
| 100             | Pi2 BPSK   | 1       | 271       |                             | 17.57                          |                              |                        |             |
| 100             | Pi2 BPSK   | 135     | 0         |                             | 17.42                          |                              |                        |             |
| 100             | Pi2 BPSK   | 135     | 69        |                             | 17.57                          |                              | 18.5                   | 0.0         |
| 100             | Pi2 BPSK   | 135     | 138       |                             | 17.42                          |                              | 18.5                   | 0.0         |
| 100             | Pi2 BPSK   | 270     | 0         |                             | 17.53                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 17.61                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 1       | 137       |                             | 17.57                          |                              |                        |             |
| 100             | QPSK       | 1       | 271       |                             | 17.51                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 17.38                          |                              |                        |             |
| 100             | QPSK       | 135     | 69        |                             | 17.57                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 17.42                          |                              | 18.5                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 17.53                          |                              | 18.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 17.22                          |                              | 18.5                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 17.29                          |                              | 18.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 17.40                          |                              | 18.5                   | 0.0         |
| Channel         |            |         |           | 649668                      | 650000                         | 650332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3745.02                     | 3750                           | 3754.98                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 17.45                       | 17.59                          | 17.44                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 649334                      | 650000                         | 650666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3740.01                     | 3750                           | 3759.99                      | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 17.46                       | 17.50                          | 17.29                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 649000                      | 650000                         | 651000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3735                        | 3750                           | 3765                         | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 17.36                       | 17.37                          | 17.35                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 648668                      | 650000                         | 651332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3730.02                     | 3750                           | 3769.98                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 17.46                       | 17.53                          | 17.20                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 651666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3725.01                     | 3750                           | 3774.99                      | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 17.44                       | 17.48                          | 17.26                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 652000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3720                        | 3750                           | 3780                         | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 17.27                       | 17.52                          | 17.17                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 647668                      | 650000                         | 652332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3715.02                     | 3750                           | 3784.98                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 17.20                       | 17.48                          | 17.34                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 647000                      | 650000                         | 652500                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3712.5                      | 3750                           | 3787.5                       | (dBm)                  | (dB)        |
| 25              | QPSK       | 1       | 1         | 17.17                       | 17.60                          | 17.16                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 647334                      | 650000                         | 652666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3710.01                     | 3750                           | 3789.99                      | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 17.47                       | 17.34                          | 17.37                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 647168                      | 650000                         | 652832                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3707.52                     | 3750                           | 3792.48                      | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 17.50                       | 17.54                          | 17.23                        | 18.5                   | 0.0         |
| Channel         |            |         |           | 647000                      | 650000                         | 653000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3705                        | 3750                           | 3795                         | (dBm)                  | (dB)        |
| 10              | Pi2 BPSK   | 1       | 1         | 17.40                       | 17.53                          | 17.27                        | 18.5                   | 0.0         |

Part27Q\_n77\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 633332                         |                              | 24.0                   | 0.0         |
| Frequency (MHz) |            |         |           |                             | 3499.98                        |                              |                        |             |
| 100             | Pi2 BPSK   | 1       | 1         |                             | 22.98                          |                              | 24.0                   | 0.0         |
| 100             | Pi2 BPSK   | 1       | 137       |                             | 23.01                          |                              |                        |             |
| 100             | Pi2 BPSK   | 1       | 271       |                             | 22.92                          |                              |                        |             |
| 100             | Pi2 BPSK   | 135     | 0         |                             | 23.02                          |                              |                        |             |
| 100             | Pi2 BPSK   | 135     | 69        |                             | 23.06                          |                              | 24.0                   | 0.0         |
| 100             | Pi2 BPSK   | 135     | 138       |                             | 22.91                          |                              | 24.0                   | 0.0         |
| 100             | Pi2 BPSK   | 270     | 0         |                             | 23.04                          |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 23.08                          |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       |                             | 22.88                          |                              |                        |             |
| 100             | QPSK       | 1       | 271       |                             | 22.92                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 23.02                          |                              |                        |             |
| 100             | QPSK       | 135     | 69        |                             | 23.05                          |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 22.87                          |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 270     | 0         |                             | 23.02                          |                              | 24.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 23.02                          |                              | 24.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 22.97                          |                              | 24.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 21.66                          |                              | 22.5                   | 1.5         |
| Channel         |            |         |           | 633000                      | 633332                         | 633666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3499.98                        | 3504.99                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 22.81                       | 22.89                          | 22.76                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 632666                      | 633332                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480.02                     | 3499.98                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 23.01                       | 22.72                          | 22.74                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633332                         | 634332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 23.01                       | 22.98                          | 22.81                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 632000                      | 633332                         | 634666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3499.98                        | 3519.99                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 22.86                       | 23.03                          | 22.99                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633332                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3499.98                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 23.01                       | 22.72                          | 22.83                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 23.05                       | 22.77                          | 22.89                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3499.98                        | 3534.99                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 22.82                       | 22.76                          | 22.82                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 630634                      | 633332                         | 635832                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3462.51                     | 3499.98                        | 3537.48                      | (dBm)                  | (dB)        |
| 25              | QPSK       | 1       | 1         | 22.84                       | 22.78                          | 22.89                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 630568                      | 633332                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3499.98                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 22.88                       | 22.74                          | 22.76                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 22.89                       | 22.86                          | 22.76                        | 24.0                   | 0.0         |
| Channel         |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      | (dBm)                  | (dB)        |
| 10              | Pi2 BPSK   | 1       | 1         | 22.80                       | 22.75                          | 22.93                        | 24.0                   | 0.0         |



| Part27Q_n77(HPUE)_Ant 7 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           | 633332                |                          |                        | 27.0                | 0.0      |  |
| Frequency (MHz)         |            |         |           | 3499.98               |                          |                        |                     |          |  |
| 100                     | P1/2 BPSK  | 1       | 1         | 25.10                 |                          |                        |                     |          |  |
| 100                     | P1/2 BPSK  | 1       | 137       | 25.27                 |                          |                        |                     |          |  |
| 100                     | P1/2 BPSK  | 1       | 271       | 25.20                 |                          |                        |                     | 26.5     |  |
| 100                     | P1/2 BPSK  | 135     | 0         | 24.74                 |                          |                        |                     |          |  |
| 100                     | P1/2 BPSK  | 135     | 69        | 25.18                 |                          |                        |                     |          |  |
| 100                     | P1/2 BPSK  | 135     | 138       | 24.82                 |                          |                        |                     |          |  |
| 100                     | P1/2 BPSK  | 270     | 0         | 25.15                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 1         | 25.64                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 1       | 137       | 25.47                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 1       | 271       | 25.51                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         | 24.72                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        | 25.15                 |                          |                        | 27.0                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       | 24.79                 |                          |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         | 24.91                 |                          |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         | 24.72                 |                          |                        |                     | 26.0     |  |
| 100                     | 64QAM      | 1       | 1         | 23.35                 |                          |                        | 24.5                |          |  |
| 100                     | 256QAM     | 1       | 1         | 21.61                 |                          |                        | 22.5                |          |  |
| Channel                 |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3495                  | 3499.98                  | 3504.99                | (dBm)               | (dB)     |  |
| 90                      | QPSK       | 1       | 1         | 25.48                 | 25.62                    | 25.59                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3510                   | (dBm)               | (dB)     |  |
| 80                      | QPSK       | 1       | 1         | 25.29                 | 25.48                    | 25.48                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3485.01               | 3499.98                  | 3514.98                | (dBm)               | (dB)     |  |
| 70                      | QPSK       | 1       | 1         | 25.50                 | 25.62                    | 25.44                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3490.02               | 3499.98                  | 3519.99                | (dBm)               | (dB)     |  |
| 60                      | QPSK       | 1       | 1         | 25.32                 | 25.56                    | 25.48                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631688                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3475.02               | 3499.98                  | 3525                   | (dBm)               | (dB)     |  |
| 50                      | QPSK       | 1       | 1         | 25.51                 | 25.37                    | 25.61                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3470.01               | 3499.98                  | 3529.98                | (dBm)               | (dB)     |  |
| 40                      | QPSK       | 1       | 1         | 25.42                 | 25.58                    | 25.44                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3465                  | 3499.98                  | 3534.99                | (dBm)               | (dB)     |  |
| 30                      | QPSK       | 1       | 1         | 25.33                 | 25.60                    | 25.34                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3462.51               | 3499.98                  | 3537.48                | (dBm)               | (dB)     |  |
| 25                      | QPSK       | 1       | 1         | 25.49                 | 25.34                    | 25.80                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630688                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3460.02               | 3499.98                  | 3540                   | (dBm)               | (dB)     |  |
| 20                      | QPSK       | 1       | 1         | 25.53                 | 25.42                    | 25.51                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3457.5                | 3499.98                  | 3542.49                | (dBm)               | (dB)     |  |
| 15                      | QPSK       | 1       | 1         | 25.44                 | 25.44                    | 25.57                  | 27.0                | 0.0      |  |
| Channel                 |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           | 3455.01               | 3499.98                  | 3544.98                | (dBm)               | (dB)     |  |
| 10                      | P1/2 BPSK  | 1       | 1         | 25.40                 | 25.37                    | 25.50                  | 27.0                | 0.0      |  |

| Part27O_n77_Ant 7 |            |         |           |                             |                                |                              |                        |             |     |
|-------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel           |            |         |           | 650000                      |                                |                              | 24.0                   | 0.0         |     |
| Frequency (MHz)   |            |         |           | 3750                        |                                |                              |                        |             |     |
| 100               | P1/2 BPSK  | 1       | 1         | 22.62                       | 22.69                          | 22.66                        |                        |             |     |
| 100               | P1/2 BPSK  | 1       | 137       | 22.84                       | 22.85                          | 22.80                        |                        |             |     |
| 100               | P1/2 BPSK  | 1       | 271       | 22.88                       | 22.88                          | 22.90                        | 24.0                   | 0.0         |     |
| 100               | P1/2 BPSK  | 135     | 0         | 22.82                       | 22.81                          | 22.84                        |                        |             |     |
| 100               | P1/2 BPSK  | 135     | 69        | 22.95                       | 22.94                          | 22.92                        |                        |             |     |
| 100               | P1/2 BPSK  | 135     | 138       | 22.88                       | 22.86                          | 22.81                        |                        |             |     |
| 100               | P1/2 BPSK  | 270     | 0         | 22.92                       | 22.94                          | 22.91                        | 24.0                   | 0.0         |     |
| 100               | QPSK       | 1       | 1         | 23.02                       | 23.13                          | 23.11                        |                        |             |     |
| 100               | QPSK       | 1       | 137       | 22.88                       | 22.89                          | 22.77                        |                        |             |     |
| 100               | QPSK       | 1       | 271       | 23.00                       | 23.10                          | 23.09                        |                        |             |     |
| 100               | QPSK       | 135     | 0         | 22.70                       | 22.81                          | 22.85                        | 24.0                   | 0.0         |     |
| 100               | QPSK       | 135     | 69        | 23.00                       | 23.10                          | 23.06                        |                        |             |     |
| 100               | QPSK       | 135     | 138       | 22.84                       | 22.87                          | 22.89                        |                        |             |     |
| 100               | QPSK       | 270     | 0         | 22.97                       | 23.06                          | 23.03                        |                        |             |     |
| 100               | 16QAM      | 1       | 1         | 22.68                       | 22.74                          | 22.63                        | 24.0                   |             | 0.0 |
| 100               | 64QAM      | 1       | 1         | 22.57                       | 22.57                          | 22.47                        | 24.0                   |             | 0.0 |
| 100               | 256QAM     | 1       | 1         | 21.35                       | 21.38                          | 21.28                        | 22.5                   |             | 1.5 |
| Channel           |            |         |           | 649688                      | 650000                         | 662332                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3745.02                     | 3840                           | 3934.98                      | (dBm)                  | (dB)        |     |
| 90                | QPSK       | 1       | 1         | 22.67                       | 22.89                          | 22.81                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 648334                      | 650000                         | 662000                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3740.01                     | 3840                           | 3939.99                      | (dBm)                  | (dB)        |     |
| 80                | QPSK       | 1       | 1         | 22.73                       | 22.90                          | 22.82                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 649000                      | 650000                         | 663000                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3735                        | 3840                           | 3945                         | (dBm)                  | (dB)        |     |
| 70                | QPSK       | 1       | 1         | 22.68                       | 22.69                          | 22.66                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 648000                      | 650000                         | 663332                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3730.02                     | 3840                           | 3949.98                      | (dBm)                  | (dB)        |     |
| 60                | QPSK       | 1       | 1         | 22.53                       | 22.96                          | 22.89                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 648334                      | 650000                         | 663666                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3725.01                     | 3840                           | 3954.99                      | (dBm)                  | (dB)        |     |
| 50                | QPSK       | 1       | 1         | 22.65                       | 22.93                          | 22.86                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 649000                      | 650000                         | 664000                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3720                        | 3840                           | 3950                         | (dBm)                  | (dB)        |     |
| 40                | QPSK       | 1       | 1         | 22.49                       | 22.79                          | 22.75                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 647688                      | 650000                         | 664332                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3715.02                     | 3840                           | 3964.98                      | (dBm)                  | (dB)        |     |
| 30                | QPSK       | 1       | 1         | 22.56                       | 22.84                          | 22.56                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 647500                      | 650000                         | 664500                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3712.5                      | 3840                           | 3972.48                      | (dBm)                  | (dB)        |     |
| 25                | QPSK       | 1       | 1         | 22.53                       | 22.80                          | 22.84                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 647334                      | 650000                         | 664666                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3710.01                     | 3840                           | 3969.99                      | (dBm)                  | (dB)        |     |
| 20                | QPSK       | 1       | 1         | 22.53                       | 22.91                          | 22.64                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 647168                      | 650000                         | 664832                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3707.52                     | 3840                           | 3972.48                      | (dBm)                  | (dB)        |     |
| 15                | QPSK       | 1       | 1         | 22.71                       | 22.61                          | 22.81                        | 24.0                   | 0.0         |     |
| Channel           |            |         |           | 647000                      | 650000                         | 665000                       | Tune-up limit          | MPR         |     |
| Frequency (MHz)   |            |         |           | 3705                        | 3840                           | 3975                         | (dBm)                  | (dB)        |     |
| 10                | P1/2 BPSK  | 1       | 1         | 22.41                       | 22.68                          | 22.72                        | 24.0                   | 0.0         |     |

| Part27O_n77(HPUE)_Ant 7 |            |         |           |                             |                                |                              |                        |             |  |
|-------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel                 |            |         |           | 650000                      | 650000                         | 662000                       | 27.0                   | 0.0         |  |
| Frequency (MHz)         |            |         |           | 3750                        | 3840                           | 3930                         |                        |             |  |
| 100                     | P1/2 BPSK  | 1       | 1         | 25.45                       | 25.52                          | 25.40                        |                        |             |  |
| 100                     | P1/2 BPSK  | 1       | 137       | 25.43                       | 25.50                          | 25.37                        |                        |             |  |
| 100                     | P1/2 BPSK  | 1       | 271       | 25.40                       | 25.50                          | 25.33                        | 26.5                   | 0.5         |  |
| 100                     | P1/2 BPSK  | 135     | 0         | 25.06                       | 25.11                          | 24.99                        |                        |             |  |
| 100                     | P1/2 BPSK  | 135     | 69        | 25.42                       | 25.50                          | 25.35                        |                        |             |  |
| 100                     | P1/2 BPSK  | 135     | 138       | 24.89                       | 24.96                          | 24.98                        |                        |             |  |
| 100                     | P1/2 BPSK  | 270     | 0         | 25.20                       | 25.29                          | 25.23                        | 26.5                   | 0.5         |  |
| 100                     | QPSK       | 1       | 1         | 25.46                       | 25.54                          | 25.42                        |                        |             |  |
| 100                     | QPSK       | 1       | 137       | 25.41                       | 25.47                          | 25.36                        |                        |             |  |
| 100                     | QPSK       | 1       | 271       | 25.24                       | 25.37                          | 25.31                        |                        |             |  |
| 100                     | QPSK       | 135     | 0         | 24.83                       | 24.85                          | 24.87                        | 27.0                   | 0.0         |  |
| 100                     | QPSK       | 135     | 69        | 25.43                       | 25.51                          | 25.40                        |                        |             |  |
| 100                     | QPSK       | 135     | 138       | 24.93                       | 24.99                          | 24.79                        |                        |             |  |
| 100                     | QPSK       | 270     | 0         | 24.75                       | 24.81                          | 24.72                        |                        |             |  |
| 100                     | 16QAM      | 1       | 1         | 24.76                       | 24.85                          | 24.88                        | 26.0                   | 1.0         |  |
| 100                     | 64QAM      | 1       | 1         | 22.91                       | 23.01                          | 23.92                        |                        |             |  |
| 100                     | 256QAM     | 1       | 1         | 21.28                       | 21.33                          | 21.32                        |                        |             |  |
| 100                     | 256QAM     | 1       | 1         | 21.28                       | 21.33                          | 22.5                         |                        |             |  |
| Channel                 |            |         |           | 649668                      | 656000                         | 662332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3745.02                     | 3840                           | 3934.98                      |                        |             |  |
| 90                      | QPSK       | 1       | 1         | 25.35                       | 25.41                          | 25.50                        |                        |             |  |
| 90                      | QPSK       | 1       | 1         | 663334                      | 656000                         | 662666                       |                        |             |  |
| Channel                 |            |         |           | 3940.01                     | 3840                           | 3949.99                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 25.37                       | 25.35                          | 25.52                        |                        |             |  |
| 80                      | QPSK       | 1       | 1         | 25.37                       | 25.35                          | 25.52                        |                        |             |  |
| 80                      | QPSK       | 1       | 1         | 660900                      | 656000                         | 663000                       |                        |             |  |
| Channel                 |            |         |           | 3735                        | 3840                           | 3945                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 25.36                       | 25.23                          | 25.53                        |                        |             |  |
| 70                      | QPSK       | 1       | 1         | 664668                      | 656000                         | 663332                       |                        |             |  |
| 70                      | QPSK       | 1       | 1         | 3730.02                     | 3840                           | 3949.98                      |                        |             |  |
| Channel                 |            |         |           | 25.38                       | 25.49                          | 25.37                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 661334                      | 656000                         | 663666                       |                        |             |  |
| 60                      | QPSK       | 1       | 1         | 3725.01                     | 3840                           | 3954.99                      |                        |             |  |
| 60                      | QPSK       | 1       | 1         | 25.33                       | 25.29                          | 25.34                        |                        |             |  |
| Channel                 |            |         |           | 664000                      | 656000                         | 664000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 725                         | 3840                           | 3950                         |                        |             |  |
| 40                      | QPSK       | 1       | 1         | 25.26                       | 25.47                          | 25.23                        |                        |             |  |
| 40                      | QPSK       | 1       | 1         | 667668                      | 656000                         | 664332                       |                        |             |  |
| Channel                 |            |         |           | 3715.02                     | 3840                           | 3954.98                      | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 25.22                       | 25.31                          | 25.36                        |                        |             |  |
| 30                      | QPSK       | 1       | 1         | 667500                      | 656000                         | 664500                       |                        |             |  |
| 30                      | QPSK       | 1       | 1         | 3712.5                      | 3840                           | 3957.5                       |                        |             |  |
| Channel                 |            |         |           | 25.30                       | 25.42                          | 25.26                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 667334                      | 656000                         | 664666                       |                        |             |  |
| 25                      | QPSK       | 1       | 1         | 3710.01                     | 3840                           | 3969.99                      |                        |             |  |
| 25                      | QPSK       | 1       | 1         | 25.43                       | 25.25                          | 25.45                        |                        |             |  |
| Channel                 |            |         |           | 667168                      | 656000                         | 664332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 3707.52                     | 3840                           | 3972.48                      |                        |             |  |
| 15                      | QPSK       | 1       | 1         | 25.37                       | 25.45                          | 25.21                        |                        |             |  |
| 15                      | QPSK       | 1       | 1         | 667000                      | 656000                         | 665000                       |                        |             |  |
| Channel                 |            |         |           | 3705                        | 3840                           | 3975                         | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz)         |            |         |           | 25.19                       | 25.29                          | 25.39                        |                        |             |  |
| 10                      | P1/2 BPSK  | 1       | 1         | 25.19                       | 25.29                          | 25.39                        |                        |             |  |
| 10                      | P1/2 BPSK  | 1       | 1         | 25.19                       | 25.29                          | 25.39                        |                        |             |  |



### Part27Q\_n78\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633332                      |                                | 3499.98                      |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 22.97                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 137       | 22.91                       |                                |                              | 24.0                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 271       | 22.59                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 22.39                       |                                |                              | 23.5                   | 0.5         |
| 100             | PI2 BPSK   | 135     | 69        | 22.79                       |                                |                              | 24.0                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 22.27                       |                                |                              | 23.5                   | 0.5         |
| 100             | PI2 BPSK   | 270     | 0         | 22.67                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 22.59                       |                                |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 22.79                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 22.55                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 21.94                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 22.75                       |                                |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 21.70                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 22.19                       |                                |                              | 23.0                   | 1.0         |
| 100             | 16QAM      | 1       | 1         | 21.95                       |                                |                              | 23.0                   | 1.0         |
| 100             | 64QAM      | 1       | 1         | 20.49                       |                                |                              | 21.5                   | 2.5         |
| 100             | 256QAM     | 1       | 1         | 18.22                       |                                |                              | 19.5                   | 4.5         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3495                        | 3500.01                        | 3505.02                      |                        |             |
| 90              | QPSK       | 1       | 1         | 22.61                       | 22.78                          | 22.50                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633558                      | 633334                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3490.02                     | 3500.01                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 22.42                       | 22.63                          | 22.36                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3485.01                     | 3500.01                        | 3515.01                      |                        |             |
| 70              | QPSK       | 1       | 1         | 22.37                       | 22.81                          | 22.56                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632000                      | 633334                         | 634668                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3480                        | 3500.01                        | 3520.02                      |                        |             |
| 60              | QPSK       | 1       | 1         | 22.54                       | 22.54                          | 22.49                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3475.02                     | 3500.01                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 22.41                       | 22.71                          | 22.45                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      |                        |             |
| 40              | QPSK       | 1       | 1         | 22.36                       | 22.84                          | 22.37                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3465                        | 3499.98                        | 3534.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 22.55                       | 22.54                          | 22.39                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630634                      | 633332                         | 635932                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3460.01                     | 3499.98                        | 3529.98                      |                        |             |
| 25              | QPSK       | 1       | 1         | 22.82                       | 22.82                          | 22.23                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3460.02                     | 3499.98                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 22.59                       | 22.74                          | 22.37                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3457.5                      | 3499.98                        | 3542.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 22.50                       | 22.58                          | 22.40                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      |                        |             |
| 10              | PI2 BPSK   | 1       | 1         | 22.58                       | 22.65                          | 22.38                        | 24.0                   | 0.0         |

### Part27O\_n78\_Ant 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 650000                      |                                | 3750                         |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 22.87                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 137       | 22.82                       |                                |                              | 24.0                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 271       | 22.62                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 22.36                       |                                |                              | 23.5                   | 0.5         |
| 100             | PI2 BPSK   | 135     | 69        | 22.78                       |                                |                              | 24.0                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 22.41                       |                                |                              | 23.5                   | 0.5         |
| 100             | PI2 BPSK   | 270     | 0         | 22.60                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 22.95                       |                                |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 22.91                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 22.83                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 22.27                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 22.90                       |                                |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 22.29                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 22.87                       |                                |                              | 23.0                   | 1.0         |
| 100             | 16QAM      | 1       | 1         | 21.87                       |                                |                              | 23.0                   | 1.0         |
| 100             | 64QAM      | 1       | 1         | 20.22                       |                                |                              | 21.5                   | 2.5         |
| 100             | 256QAM     | 1       | 1         | 19.32                       |                                |                              | 19.5                   | 4.5         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649668                      | 650000                         | 650332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3745.02                     | 3750                           | 3754.98                      |                        |             |
| 90              | QPSK       | 1       | 1         | 22.50                       | 22.61                          | 22.79                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649334                      | 650000                         | 650666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3740.01                     | 3750                           | 3759.99                      |                        |             |
| 80              | QPSK       | 1       | 1         | 22.59                       | 22.47                          | 22.65                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 649000                      | 650000                         | 651000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3735                        | 3750                           | 3765                         |                        |             |
| 70              | QPSK       | 1       | 1         | 22.46                       | 22.44                          | 22.69                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648668                      | 650000                         | 651332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3730.02                     | 3750                           | 3769.98                      |                        |             |
| 60              | QPSK       | 1       | 1         | 22.49                       | 22.69                          | 22.65                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648334                      | 650000                         | 651666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3725.01                     | 3750                           | 3774.99                      |                        |             |
| 50              | QPSK       | 1       | 1         | 22.67                       | 22.34                          | 22.59                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 648000                      | 650000                         | 652000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3720                        | 3750                           | 3780                         |                        |             |
| 40              | QPSK       | 1       | 1         | 22.45                       | 22.56                          | 22.53                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647668                      | 650000                         | 652332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3715.02                     | 3750                           | 3784.98                      |                        |             |
| 30              | QPSK       | 1       | 1         | 22.82                       | 22.48                          | 22.61                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647334                      | 650000                         | 652666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3710.01                     | 3750                           | 3789.99                      |                        |             |
| 20              | QPSK       | 1       | 1         | 22.36                       | 22.63                          | 22.59                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647168                      | 650000                         | 652832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3707.52                     | 3750                           | 3792.48                      |                        |             |
| 15              | QPSK       | 1       | 1         | 22.42                       | 22.51                          | 22.78                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 647000                      | 650000                         | 653000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3705                        | 3750                           | 3795                         |                        |             |
| 10              | PI2 BPSK   | 1       | 1         | 22.68                       | 22.41                          | 22.59                        | 24.0                   | 0.0         |

### Part27Q\_n77\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633332                      |                                | 3499.98                      |                        |             |
| 100             | PI2 BPSK   | 1       | 1         |                             | 23.47                          |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 137       |                             | 23.38                          |                              | 24.0                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 271       |                             | 23.36                          |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 0         |                             | 23.45                          |                              | 24.0                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 69        |                             | 23.34                          |                              | 24.0                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       |                             | 23.37                          |                              |                        |             |
| 100             | PI2 BPSK   | 270     | 0         |                             | 23.36                          |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 1         |                             | 23.48                          |                              |                        |             |
| 100             | QPSK       | 1       | 137       |                             | 23.32                          |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 1       | 271       |                             | 23.35                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 23.41                          |                              |                        |             |
| 100             | QPSK       | 135     | 69        |                             | 23.46                          |                              | 24.0                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 23.26                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 23.44                          |                              | 24.0                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 23.46                          |                              | 24.0                   | 0.0         |
| 100             | 64QAM      | 1       | 1         |                             | 23.21                          |                              | 24.0                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 21.96                          |                              | 22.5                   | 1.5         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 633000                      | 633332                         | 633666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3495                        | 3499.98                        | 3504.99                      |                        |             |
| 90              | QPSK       | 1       | 1         | 23.10                       | 23.29                          | 23.34                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632500                      | 633332                         | 634000                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3490.02                     | 3499.98                        | 3510                         |                        |             |
| 80              | QPSK       | 1       | 1         | 22.97                       | 23.06                          | 23.38                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632334                      | 633332                         | 634332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3485.01                     | 3499.98                        | 3514.98                      |                        |             |
| 70              | QPSK       | 1       | 1         | 23.10                       | 23.22                          | 23.38                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 632000                      | 633332                         | 634666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3480                        | 3499.98                        | 3519.99                      |                        |             |
| 60              | QPSK       | 1       | 1         | 22.98                       | 23.14                          | 23.13                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631668                      | 633332                         | 633500                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3475.02                     | 3499.98                        | 3525                         |                        |             |
| 50              | QPSK       | 1       | 1         | 22.85                       | 23.28                          | 23.20                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3470.01                     | 3499.98                        | 3525.98                      |                        |             |
| 40              | QPSK       | 1       | 1         | 22.99                       | 23.33                          | 23.41                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 631000                      | 633332                         | 635666                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3465                        | 3499.98                        | 3534.99                      |                        |             |
| 30              | QPSK       | 1       | 1         | 23.14                       | 23.37                          | 23.35                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630834                      | 633332                         | 635832                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3452.51                     | 3499.98                        | 3537.48                      |                        |             |
| 25              | QPSK       | 1       | 1         | 22.93                       | 23.23                          | 23.20                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630668                      | 633332                         | 635800                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3460.02                     | 3499.98                        | 3540                         |                        |             |
| 20              | QPSK       | 1       | 1         | 23.08                       | 23.34                          | 23.18                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630500                      | 633332                         | 636166                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3457.5                      | 3499.98                        | 3532.49                      |                        |             |
| 15              | QPSK       | 1       | 1         | 22.98                       | 23.02                          | 23.13                        | 24.0                   | 0.0         |
| Channel         |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 630334                      | 633332                         | 635432                       | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|                 |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      |                        |             |
| 10              | PI2 BPSK   | 1       | 1         | 23.17                       | 23.07                          | 23.36                        | 24.0                   | 0.0         |

## Part27Q\_n77(HPUE)\_Ant 8

| BW (MHz)                | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-------------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3499.98                 |            |         |           |                             |                                |                              |                        |             |
| 100                     | PI2 BPSK   | 1       | 1         | 26.46                       |                                |                              |                        |             |
| 100                     | PI2 BPSK   | 1       | 137       | 26.45                       |                                |                              | 27.0                   | 0.0         |
| 100                     | PI2 BPSK   | 1       | 271       | 26.41                       |                                |                              |                        |             |
| 100                     | PI2 BPSK   | 135     | 0         | 26.07                       |                                |                              | 26.5                   | 0.5         |
| 100                     | PI2 BPSK   | 135     | 69        | 26.43                       |                                |                              | 27.0                   | 0.0         |
| 100                     | PI2 BPSK   | 135     | 138       | 25.91                       |                                |                              |                        |             |
| 100                     | PI2 BPSK   | 270     | 0         | 25.95                       |                                |                              | 26.5                   | 0.5         |
| 100                     | QPSK       | 1       | 1         | 26.47                       |                                |                              | 27.0                   | 0.0         |
| 100                     | QPSK       | 1       | 137       | 26.42                       |                                |                              |                        |             |
| 100                     | QPSK       | 1       | 271       | 26.34                       |                                |                              |                        |             |
| 100                     | QPSK       | 1       | 271       | 25.51                       |                                |                              |                        |             |
| 100                     | QPSK       | 135     | 0         | 25.51                       |                                |                              |                        |             |
| 100                     | QPSK       | 135     | 69        | 26.44                       |                                |                              | 27.0                   | 0.0         |
| 100                     | QPSK       | 135     | 138       | 25.37                       |                                |                              |                        |             |
| 100                     | QPSK       | 270     | 0         | 25.42                       |                                |                              | 26.0                   | 1.0         |
| 100                     | 16QAM      | 1       | 1         | 25.51                       |                                |                              | 26.0                   | 1.0         |
| 100                     | 64QAM      | 1       | 1         | 23.89                       |                                |                              | 24.5                   | 2.5         |
| 100                     | 256QAM     | 1       | 1         | 21.93                       |                                |                              | 22.5                   | 4.5         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3495 3499.98 3504.99    |            |         |           |                             |                                |                              |                        |             |
| 90                      | QPSK       | 1       | 1         | 25.94                       | 26.22                          | 26.28                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3495.00 3499.98 3504.99 |            |         |           |                             |                                |                              |                        |             |
| 80                      | QPSK       | 1       | 1         | 25.72                       | 25.95                          | 26.08                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3485.01 3499.98 3514.98 |            |         |           |                             |                                |                              |                        |             |
| 70                      | QPSK       | 1       | 1         | 25.91                       | 26.29                          | 26.22                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3490.02 3499.98 3510    |            |         |           |                             |                                |                              |                        |             |
| 60                      | QPSK       | 1       | 1         | 25.79                       | 26.22                          | 26.24                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3475.02 3499.98 3525    |            |         |           |                             |                                |                              |                        |             |
| 50                      | QPSK       | 1       | 1         | 25.78                       | 26.17                          | 26.23                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3470.01 3499.98 3509.99 |            |         |           |                             |                                |                              |                        |             |
| 40                      | QPSK       | 1       | 1         | 25.84                       | 26.26                          | 26.15                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3465 3499.98 3534.99    |            |         |           |                             |                                |                              |                        |             |
| 30                      | QPSK       | 1       | 1         | 26.02                       | 26.10                          | 26.22                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3462.51 3499.98 3537.48 |            |         |           |                             |                                |                              |                        |             |
| 25                      | QPSK       | 1       | 1         | 25.82                       | 26.05                          | 26.18                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3460.02 3499.98 3540    |            |         |           |                             |                                |                              |                        |             |
| 20                      | QPSK       | 1       | 1         | 25.86                       | 26.05                          | 26.20                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3457.5 3499.98 3542.49  |            |         |           |                             |                                |                              |                        |             |
| 15                      | QPSK       | 1       | 1         | 25.85                       | 26.02                          | 26.15                        | 27.0                   | 0.0         |
| Channel                 |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)         |            |         |           |                             |                                |                              |                        |             |
| 3455.01 3499.98 3544.98 |            |         |           |                             |                                |                              |                        |             |
| 10                      | PI2 BPSK   | 1       | 1         | 25.93                       | 25.94                          | 26.35                        | 27.0                   | 0.0         |

## Part27O\_n77\_Ant 8

| BW (MHz)             | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|----------------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3750 3840 3930       |            |         |           |                             |                                |                              |                        |             |
| 100                  | PI2 BPSK   | 1       | 1         | 23.05                       | 23.11                          | 22.98                        |                        |             |
| 100                  | PI2 BPSK   | 1       | 137       | 22.99                       | 22.99                          | 22.92                        | 24.0                   | 0.0         |
| 100                  | PI2 BPSK   | 1       | 271       | 23.03                       | 23.04                          | 22.94                        |                        |             |
| 100                  | PI2 BPSK   | 135     | 0         | 23.03                       | 23.00                          | 22.93                        | 24.0                   | 0.0         |
| 100                  | PI2 BPSK   | 135     | 69        | 23.02                       | 23.02                          | 22.96                        | 24.0                   | 0.0         |
| 100                  | PI2 BPSK   | 135     | 138       | 22.90                       | 22.95                          | 22.89                        |                        |             |
| 100                  | PI2 BPSK   | 270     | 0         | 23.02                       | 23.00                          | 22.92                        | 24.0                   | 0.0         |
| 100                  | QPSK       | 1       | 1         | 23.06                       | 23.13                          | 22.99                        |                        |             |
| 100                  | QPSK       | 1       | 137       | 22.83                       | 22.89                          | 22.87                        | 24.0                   | 0.0         |
| 100                  | QPSK       | 1       | 271       | 23.04                       | 23.04                          | 22.97                        |                        |             |
| 100                  | QPSK       | 135     | 0         | 22.83                       | 22.87                          | 22.77                        |                        |             |
| 100                  | QPSK       | 135     | 69        | 23.03                       | 23.10                          | 22.95                        | 24.0                   | 0.0         |
| 100                  | QPSK       | 135     | 138       | 22.91                       | 22.98                          | 22.87                        |                        |             |
| 100                  | QPSK       | 270     | 0         | 22.93                       | 23.08                          | 22.91                        | 24.0                   | 0.0         |
| 100                  | 16QAM      | 1       | 1         | 22.55                       | 22.64                          | 22.82                        | 24.0                   | 0.0         |
| 100                  | 64QAM      | 1       | 1         | 22.91                       | 22.91                          | 22.81                        | 24.0                   | 0.0         |
| 100                  | 256QAM     | 1       | 1         | 21.54                       | 21.52                          | 21.50                        | 22.5                   | 1.5         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3745.02 3840 3934.98 |            |         |           |                             |                                |                              |                        |             |
| 90                   | QPSK       | 1       | 1         | 22.97                       | 23.11                          | 22.85                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3740.01 3840 3939.99 |            |         |           |                             |                                |                              |                        |             |
| 80                   | QPSK       | 1       | 1         | 22.96                       | 23.01                          | 22.97                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3735 3840 3945       |            |         |           |                             |                                |                              |                        |             |
| 70                   | QPSK       | 1       | 1         | 22.93                       | 23.10                          | 22.90                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3730.02 3840 3949.98 |            |         |           |                             |                                |                              |                        |             |
| 60                   | QPSK       | 1       | 1         | 23.01                       | 23.09                          | 23.00                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3725.01 3840 3954.99 |            |         |           |                             |                                |                              |                        |             |
| 50                   | QPSK       | 1       | 1         | 23.01                       | 23.03                          | 22.89                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3720 3840 3960       |            |         |           |                             |                                |                              |                        |             |
| 40                   | QPSK       | 1       | 1         | 23.09                       | 23.04                          | 23.01                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3715.02 3840 3964.98 |            |         |           |                             |                                |                              |                        |             |
| 30                   | QPSK       | 1       | 1         | 23.04                       | 23.09                          | 23.01                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3710.01 3840 3969.99 |            |         |           |                             |                                |                              |                        |             |
| 25                   | QPSK       | 1       | 1         | 23.00                       | 23.06                          | 22.94                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3707.52 3840 3972.48 |            |         |           |                             |                                |                              |                        |             |
| 15                   | QPSK       | 1       | 1         | 23.09                       | 23.02                          | 22.93                        | 24.0                   | 0.0         |
| Channel              |            |         |           |                             |                                |                              |                        |             |
| Frequency (MHz)      |            |         |           |                             |                                |                              |                        |             |
| 3705 3840 3975       |            |         |           |                             |                                |                              |                        |             |
| 10                   | PI2 BPSK   | 1       | 1         | 23.06                       | 23.12                          | 22.91                        | 24.0                   | 0.0         |

## Part27O\_n77(HPUE)\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch./Freq. | Power Middle Ch./Freq. | Power High Ch./Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|----------|
| Channel         |            |         |           |                     |                        |                      |                     |          |
| Frequency (MHz) |            |         |           | 650000              | 656000                 | 662000               |                     |          |
|                 |            |         |           | 3750                | 3840                   | 3930                 |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 26.00               | 26.05                  | 25.94                |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 25.98               | 26.03                  | 25.91                | 27.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 271       | 25.98               | 25.97                  | 25.92                |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 25.36               | 25.46                  | 25.35                | 26.5                | 0.5      |
| 100             | PI2 BPSK   | 135     | 69        | 25.92               | 26.01                  | 25.89                | 27.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 25.49               | 25.45                  | 25.43                | 26.5                | 0.5      |
| 100             | PI2 BPSK   | 270     | 0         | 25.42               | 25.44                  | 25.47                |                     |          |
| 100             | QPSK       | 1       | 1         | 26.04               | 26.07                  | 25.98                |                     |          |
| 100             | QPSK       | 1       | 137       | 25.95               | 25.99                  | 25.95                | 27.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 25.99               | 25.99                  | 25.92                |                     |          |
| 100             | QPSK       | 135     | 0         | 24.96               | 24.93                  | 24.89                |                     |          |
| 100             | QPSK       | 135     | 69        | 25.00               | 26.04                  | 25.95                | 27.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 24.84               | 24.87                  | 24.84                |                     |          |
| 100             | QPSK       | 270     | 0         | 24.88               | 25.01                  | 24.92                | 26.0                | 1.0      |
| 100             | 16QAM      | 1       | 1         | 24.72               | 24.68                  | 24.60                | 26.0                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 23.12               | 23.24                  | 23.13                | 24.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 22.38               | 22.48                  | 22.45                | 22.5                | 4.5      |
| Channel         |            |         |           |                     |                        |                      |                     |          |
| Frequency (MHz) |            |         |           | 48990               | 495900                 | 501900               |                     |          |
|                 |            |         |           | 3745.02             | 3840                   | 3934.98              |                     |          |
| 90              | QPSK       | 1       | 1         | 25.92               | 26.03                  | 25.86                | 27.0                | 0.0      |
| Channel         |            |         |           | 649324              | 656000                 | 662666               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3740.01             | 3840                   | 3939.99              |                     |          |
| 80              | QPSK       | 1       | 1         | 25.93               | 26.04                  | 26.01                | 27.0                | 0.0      |
| Channel         |            |         |           | 649900              | 656000                 | 663000               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3735                | 3840                   | 3945                 |                     |          |
| 70              | QPSK       | 1       | 1         | 25.92               | 25.98                  | 25.92                | 27.0                | 0.0      |
| Channel         |            |         |           | 648668              | 656000                 | 663332               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3730.02             | 3840                   | 3949.98              |                     |          |
| 60              | QPSK       | 1       | 1         | 26.01               | 25.97                  | 25.91                | 27.0                | 0.0      |
| Channel         |            |         |           | 648334              | 656000                 | 663900               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3725.01             | 3840                   | 3954.99              |                     |          |
| 50              | QPSK       | 1       | 1         | 25.99               | 25.95                  | 25.98                | 27.0                | 0.0      |
| Channel         |            |         |           | 648900              | 656000                 | 664000               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3720                | 3840                   | 3960                 |                     |          |
| 40              | QPSK       | 1       | 1         | 26.00               | 26.03                  | 25.98                | 27.0                | 0.0      |
| Channel         |            |         |           | 647638              | 656000                 | 664532               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3715.02             | 3840                   | 3964.98              |                     |          |
| 30              | QPSK       | 1       | 1         | 25.95               | 25.98                  | 25.95                | 27.0                | 0.0      |
| Channel         |            |         |           | 647500              | 656000                 | 664500               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3712.5              | 3840                   | 3967.5               |                     |          |
| 25              | QPSK       | 1       | 1         | 25.97               | 25.95                  | 25.96                | 27.0                | 0.0      |
| Channel         |            |         |           | 647334              | 656000                 | 664666               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3710.01             | 3840                   | 3969.99              |                     |          |
| 20              | QPSK       | 1       | 1         | 26.03               | 26.00                  | 25.98                | 27.0                | 0.0      |
| Channel         |            |         |           | 647168              | 656000                 | 664632               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3707.52             | 3840                   | 3972.48              |                     |          |
| 15              | QPSK       | 1       | 1         | 25.91               | 25.99                  | 25.98                | 27.0                | 0.0      |
| Channel         |            |         |           | 647000              | 656000                 | 664600               | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3705                | 3840                   | 3975                 |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 25.97               | 25.86                  | 25.87                | 27.0                | 0.0      |



### Part27Q\_n78\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Mode Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 633332                | 3499.98                |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 23.15                 |                        |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 23.12                 |                        |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 271       | 22.91                 |                        |                        | 24.0                | 0.5      |
| 100             | PI2 BPSK   | 135     | 0         | 22.68                 |                        |                        | 23.5                | 0.5      |
| 100             | PI2 BPSK   | 135     | 69        | 23.13                 |                        |                        | 24.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 22.49                 |                        |                        | 23.0                | 1.0      |
| 100             | PI2 BPSK   | 270     | 0         | 22.80                 |                        |                        | 21.5                | 2.5      |
| 100             | QPSK       | 1       | 1         | 23.17                 |                        |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 23.01                 |                        |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 22.85                 |                        |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 0         | 22.17                 |                        |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 23.15                 |                        |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 22.01                 |                        |                        | 23.0                | 1.0      |
| 100             | QPSK       | 270     | 0         | 22.12                 |                        |                        | 21.5                | 2.5      |
| 100             | 16QAM      | 1       | 1         | 22.11                 |                        |                        | 19.5                | 4.5      |
| 100             | 64QAM      | 1       | 1         | 20.47                 |                        |                        |                     |          |
| 100             | 256QAM     | 1       | 1         | 18.69                 |                        |                        |                     |          |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 633000                | 633334                 | 633668                 |                     |          |
|                 |            |         |           | 3495                  | 3500.01                | 3505.02                |                     |          |
| 90              | QPSK       | 1       | 1         | 23.07                 | 23.15                  | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 632668                | 633334                 | 634000                 |                     |          |
|                 |            |         |           | 3490.02               | 3500.01                | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 23.05                 | 23.04                  | 23.07                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 632334                | 633334                 | 634334                 |                     |          |
|                 |            |         |           | 3485.01               | 3500.01                | 3515.01                |                     |          |
| 70              | QPSK       | 1       | 1         | 23.01                 | 23.03                  | 23.05                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 632000                | 633334                 | 634668                 |                     |          |
|                 |            |         |           | 3480                  | 3500.01                | 3520.02                |                     |          |
| 60              | QPSK       | 1       | 1         | 22.91                 | 22.99                  | 22.94                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 631668                | 633334                 | 635000                 |                     |          |
|                 |            |         |           | 3475.02               | 3500.01                | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 22.93                 | 23.12                  | 22.98                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 631334                | 633332                 | 635332                 |                     |          |
|                 |            |         |           | 3470.03               | 3499.98                | 3529.98                |                     |          |
| 40              | QPSK       | 1       | 1         | 23.00                 | 23.10                  | 22.99                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 631000                | 633332                 | 635668                 |                     |          |
|                 |            |         |           | 3465                  | 3499.98                | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 23.03                 | 22.96                  | 22.94                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 630634                | 633332                 | 635832                 |                     |          |
|                 |            |         |           | 3460.02               | 3499.98                | 3537.49                |                     |          |
| 25              | QPSK       | 1       | 1         | 23.08                 | 23.04                  | 23.00                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 630668                | 633332                 | 636000                 |                     |          |
|                 |            |         |           | 3460.02               | 3499.98                | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 22.92                 | 23.01                  | 23.04                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 630500                | 633332                 | 636168                 |                     |          |
|                 |            |         |           | 3457.5                | 3499.98                | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 23.00                 | 23.13                  | 23.10                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                        |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 630334                | 633332                 | 636332                 |                     |          |
|                 |            |         |           | 3455.01               | 3499.98                | 3544.98                |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 22.95                 | 23.07                  | 22.95                  | 24.0                | 0.0      |

### Part27Q\_n78\_Ant 8

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 650000                | 3750                     |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 23.08                 |                          |                        | 24.0                |          |
| 100             | PI2 BPSK   | 1       | 137       | 23.09                 |                          |                        | 24.0                | 0.0      |
| 100             | PI2 BPSK   | 1       | 271       | 22.94                 |                          |                        | 23.5                | 0.5      |
| 100             | PI2 BPSK   | 135     | 0         | 22.67                 |                          |                        | 23.5                | 0.5      |
| 100             | PI2 BPSK   | 135     | 69        | 23.08                 |                          |                        | 24.0                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 22.47                 |                          |                        | 23.5                | 0.5      |
| 100             | PI2 BPSK   | 270     | 0         | 22.54                 |                          |                        | 23.0                | 1.0      |
| 100             | QPSK       | 1       | 1         | 23.12                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 1       | 137       | 23.10                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 1       | 271       | 22.92                 |                          |                        | 23.0                | 0.0      |
| 100             | QPSK       | 135     | 0         | 22.16                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 69        | 23.10                 |                          |                        | 24.0                | 0.0      |
| 100             | QPSK       | 135     | 138       | 22.00                 |                          |                        | 23.0                | 1.0      |
| 100             | QPSK       | 270     | 0         | 22.08                 |                          |                        | 23.0                | 1.0      |
| 100             | 16QAM      | 1       | 1         | 22.03                 |                          |                        | 23.0                | 1.0      |
| 100             | 64QAM      | 1       | 1         | 20.77                 |                          |                        | 21.5                | 2.5      |
| 100             | 256QAM     | 1       | 1         | 19.27                 |                          |                        | 19.5                | 4.5      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 649668                | 650000                   | 650332                 |                     |          |
|                 |            |         |           | 3745.02               | 3750                     | 3754.98                |                     |          |
| 90              | QPSK       | 1       | 1         | 23.05                 | 23.08                    | 23.07                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 649334                | 650000                   | 650666                 |                     |          |
|                 |            |         |           | 3740.01               | 3750                     | 3759.99                |                     |          |
| 80              | QPSK       | 1       | 1         | 23.00                 | 23.07                    | 23.04                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 649000                | 650000                   | 651000                 |                     |          |
|                 |            |         |           | 3735                  | 3750                     | 3765                   |                     |          |
| 70              | QPSK       | 1       | 1         | 22.86                 | 23.02                    | 23.05                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 648668                | 650000                   | 651332                 |                     |          |
|                 |            |         |           | 3730.02               | 3750                     | 3769.99                |                     |          |
| 60              | QPSK       | 1       | 1         | 22.98                 | 23.07                    | 22.91                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 648334                | 650000                   | 651666                 |                     |          |
|                 |            |         |           | 3725.01               | 3750                     | 3774.99                |                     |          |
| 50              | QPSK       | 1       | 1         | 22.86                 | 23.07                    | 22.95                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 648000                | 650000                   | 652000                 |                     |          |
|                 |            |         |           | 3720                  | 3750                     | 3760                   |                     |          |
| 40              | QPSK       | 1       | 1         | 22.89                 | 23.03                    | 22.99                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 647668                | 650000                   | 652332                 |                     |          |
|                 |            |         |           | 3715.02               | 3750                     | 3764.98                |                     |          |
| 30              | QPSK       | 1       | 1         | 22.86                 | 23.06                    | 22.99                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 647334                | 650000                   | 652666                 |                     |          |
|                 |            |         |           | 3710.01               | 3750                     | 3769.99                |                     |          |
| 25              | QPSK       | 1       | 1         | 22.91                 | 23.09                    | 23.02                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 653000                 |                     |          |
|                 |            |         |           | 3705                  | 3750                     | 3765                   |                     |          |
| 20              | QPSK       | 1       | 1         | 23.03                 | 22.99                    | 22.90                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 647168                | 650000                   | 652832                 |                     |          |
|                 |            |         |           | 3707.62               | 3750                     | 3762.48                |                     |          |
| 15              | QPSK       | 1       | 1         | 22.94                 | 23.10                    | 22.99                  | 24.0                | 0.0      |
| Channel         |            |         |           |                       |                          |                        |                     | 0.0      |
| Frequency (MHz) |            |         |           | 647000                | 650000                   | 653000                 |                     |          |
|                 |            |         |           | 3705                  | 3750                     | 3765                   |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 22.93                 | 23.08                    | 23.06                  | 24.0                | 0.0      |

### Part27Q\_n77\_Ant 9

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|
| Channel         |            |         |           | 633332                |                          |                        |                     |          |
| Frequency (MHz) |            |         |           | 3499.98               |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 1         | 16.63                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 1       | 137       | 16.58                 |                          |                        | 17.5                | 0.0      |
| 100             | PI2 BPSK   | 1       | 271       | 16.61                 |                          |                        |                     |          |
| 100             | PI2 BPSK   | 135     | 0         | 16.53                 |                          |                        | 17.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 69        | 16.40                 |                          |                        | 17.5                | 0.0      |
| 100             | PI2 BPSK   | 135     | 138       | 16.52                 |                          |                        | 17.5                | 0.0      |
| 100             | PI2 BPSK   | 270     | 0         | 16.61                 |                          |                        | 17.5                | 0.0      |
| 100             | QPSK       | 1       | 1         | 16.75                 |                          |                        |                     |          |
| 100             | QPSK       | 1       | 137       | 16.68                 |                          |                        | 17.5                | 0.0      |
| 100             | QPSK       | 1       | 271       | 16.62                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 0         | 16.57                 |                          |                        |                     |          |
| 100             | QPSK       | 135     | 69        | 16.73                 |                          |                        | 17.5                | 0.0      |
| 100             | QPSK       | 135     | 138       | 16.45                 |                          |                        |                     |          |
| 100             | QPSK       | 270     | 0         | 16.70                 |                          |                        | 17.5                | 0.0      |
| 100             | 16QAM      | 1       | 1         | 16.41                 |                          |                        | 17.5                | 0.0      |
| 100             | 64QAM      | 1       | 1         | 16.54                 |                          |                        | 17.5                | 0.0      |
| 100             | 256QAM     | 1       | 1         | 16.70                 |                          |                        | 17.5                | 0.0      |
| Channel         |            |         |           | 633000                | 633332                   | 633666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3495                  | 3499.98                  | 3504.99                |                     |          |
| 90              | QPSK       | 1       | 1         | 16.65                 | 16.71                    | 16.61                  | 17.5                | 0.0      |
| Channel         |            |         |           | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3490.02               | 3499.98                  | 3510                   |                     |          |
| 80              | QPSK       | 1       | 1         | 16.50                 | 16.51                    | 16.50                  | 17.5                | 0.0      |
| Channel         |            |         |           | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3485.01               | 3499.98                  | 3514.98                |                     |          |
| 70              | QPSK       | 1       | 1         | 16.45                 | 16.48                    | 16.65                  | 17.5                | 0.0      |
| Channel         |            |         |           | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3480                  | 3499.98                  | 3520                   |                     |          |
| 60              | QPSK       | 1       | 1         | 16.73                 | 16.62                    | 16.82                  | 17.5                | 0.0      |
| Channel         |            |         |           | 631668                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3475.02               | 3499.98                  | 3525                   |                     |          |
| 50              | QPSK       | 1       | 1         | 16.51                 | 16.62                    | 16.44                  | 17.5                | 0.0      |
| Channel         |            |         |           | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3470.1                | 3499.98                  | 3529.88                |                     |          |
| 40              | QPSK       | 1       | 1         | 16.63                 | 16.51                    | 16.66                  | 17.5                | 0.0      |
| Channel         |            |         |           | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3465                  | 3499.98                  | 3534.99                |                     |          |
| 30              | QPSK       | 1       | 1         | 16.44                 | 16.56                    | 16.50                  | 17.5                | 0.0      |
| Channel         |            |         |           | 630634                | 633332                   | 635932                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3462.51               | 3499.98                  | 3537.49                |                     |          |
| 25              | QPSK       | 1       | 1         | 16.68                 | 16.50                    | 16.60                  | 17.5                | 0.0      |
| Channel         |            |         |           | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3460.02               | 3499.98                  | 3540                   |                     |          |
| 20              | QPSK       | 1       | 1         | 16.63                 | 16.69                    | 16.68                  | 17.5                | 0.0      |
| Channel         |            |         |           | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3457.5                | 3499.98                  | 3542.49                |                     |          |
| 15              | QPSK       | 1       | 1         | 16.67                 | 16.72                    | 16.64                  | 17.5                | 0.0      |
| Channel         |            |         |           | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz) |            |         |           | 3455.01               | 3499.98                  | 3544.98                |                     |          |
| 10              | PI2 BPSK   | 1       | 1         | 16.55                 | 16.68                    | 16.58                  | 17.5                | 0.0      |



| Part27Q_n77(HPUE)_Ant 9 |            |         |           |                       |                          |                        |                     |          |  |
|-------------------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
|                         |            |         |           |                       | 633332                   | 3496.98                |                     |          |  |
| 100                     | P12 BPSK   | 1       | 1         |                       | 19.60                    |                        | 20.5                | 0.0      |  |
| 100                     | P12 BPSK   | 1       | 137       |                       | 19.54                    |                        |                     |          |  |
| 100                     | P12 BPSK   | 1       | 271       |                       | 19.60                    |                        |                     |          |  |
| 100                     | P12 BPSK   | 135     | 0         |                       | 19.72                    |                        | 20.5                | 0.0      |  |
| 100                     | P12 BPSK   | 135     | 69        |                       | 19.72                    |                        | 20.5                | 0.0      |  |
| 100                     | P12 BPSK   | 135     | 138       |                       | 19.58                    |                        | 20.5                | 0.0      |  |
| 100                     | P12 BPSK   | 270     | 0         |                       | 19.62                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 1         |                       | 19.61                    |                        |                     |          |  |
| 100                     | QPSK       | 1       | 137       |                       | 19.62                    |                        | 20.5                | 0.0      |  |
| 100                     | QPSK       | 1       | 271       |                       | 19.65                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 0         |                       | 19.77                    |                        |                     |          |  |
| 100                     | QPSK       | 135     | 69        |                       | 19.46                    |                        | 20.5                | 0.0      |  |
| 100                     | QPSK       | 135     | 138       |                       | 19.52                    |                        |                     |          |  |
| 100                     | QPSK       | 270     | 0         |                       | 19.75                    |                        |                     |          |  |
| 100                     | 16QAM      | 1       | 1         |                       | 19.74                    |                        | 20.5                | 0.0      |  |
| 100                     | 64QAM      | 1       | 1         |                       | 19.52                    |                        | 20.5                | 0.0      |  |
| 100                     | 256QAM     | 1       | 1         |                       | 19.69                    |                        | 20.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 90                      | QPSK       | 1       | 1         | 19.71                 | 19.72                    | 19.75                  | 20.5                | 0.0      |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 632668                | 633332                   | 634000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 80                      | QPSK       | 1       | 1         | 3496.98               | 3504.99                  | 3512.00                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 632334                | 633332                   | 634332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 70                      | QPSK       | 1       | 1         | 3485.01               | 3496.98                  | 3514.98                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 632000                | 633332                   | 634666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 60                      | QPSK       | 1       | 1         | 3480                  | 3496.98                  | 3516.99                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 631968                | 633332                   | 635000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 50                      | QPSK       | 1       | 1         | 3475.02               | 3496.98                  | 3525                   | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 631334                | 633332                   | 635332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 40                      | QPSK       | 1       | 1         | 3470.01               | 3496.98                  | 3520.98                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 631000                | 633332                   | 635666                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 30                      | QPSK       | 1       | 1         | 3465                  | 3496.98                  | 3534.99                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 630834                | 633332                   | 635832                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 25                      | QPSK       | 1       | 1         | 3462.31               | 3496.98                  | 3537.48                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 630668                | 633332                   | 636000                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 20                      | QPSK       | 1       | 1         | 3460.02               | 3496.98                  | 3540                   | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 630500                | 633332                   | 636166                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 15                      | QPSK       | 1       | 1         | 3457.6                | 3496.98                  | 3542.48                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 10                      | P12 BPSK   | 1       | 1         | 630334                | 633332                   | 636332                 | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 10                      | P12 BPSK   | 1       | 1         | 3455.01               | 3496.98                  | 3544.98                | Tune-up limit (dBm) | MPR (dB) |  |
| Channel                 |            |         |           |                       |                          |                        |                     |          |  |
| Frequency (MHz)         |            |         |           |                       |                          |                        |                     |          |  |
| 10                      | P12 BPSK   | 1       | 1         | 19.62                 | 19.64                    | 19.61                  | 20.5                | 0.0      |  |

| Part27O_n77_Ant 9 |            |         |           |                          |                             |                           |                        |             |     |
|-------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|-----|
| BW [MHz]          | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 100               | P12 BPSK   | 1       | 1         | 16.05                    | 16.09                       | 15.90                     |                        |             |     |
| 100               | P12 BPSK   | 1       | 137       | 15.95                    | 16.22                       | 16.00                     | 17.5                   |             | 0.0 |
| 100               | P12 BPSK   | 1       | 271       | 16.20                    | 16.35                       | 16.16                     |                        |             |     |
| 100               | P12 BPSK   | 135     | 0         | 16.08                    | 16.20                       | 16.05                     | 17.5                   |             | 0.0 |
| 100               | P12 BPSK   | 135     | 69        | 15.89                    | 16.01                       | 15.90                     | 17.5                   |             | 0.0 |
| 100               | P12 BPSK   | 135     | 138       | 15.83                    | 16.04                       | 15.90                     | 17.5                   |             | 0.0 |
| 100               | P12 BPSK   | 270     | 0         | 15.99                    | 16.21                       | 15.99                     |                        |             |     |
| 100               | QPSK       | 1       | 1         | 16.20                    | 16.38                       | 16.17                     |                        |             |     |
| 100               | QPSK       | 1       | 137       | 16.16                    | 16.24                       | 16.04                     | 17.5                   |             | 0.0 |
| 100               | QPSK       | 1       | 271       | 15.97                    | 16.10                       | 15.98                     |                        |             |     |
| 100               | QPSK       | 135     | 0         | 15.89                    | 16.09                       | 15.90                     |                        |             |     |
| 100               | QPSK       | 135     | 69        | 16.10                    | 16.34                       | 16.18                     | 17.5                   |             | 0.0 |
| 100               | QPSK       | 135     | 138       | 15.99                    | 16.21                       | 16.04                     |                        |             |     |
| 100               | QPSK       | 270     | 0         | 16.17                    | 16.31                       | 16.14                     | 17.5                   |             | 0.0 |
| 100               | 16QAM      | 1       | 1         | 16.14                    | 16.19                       | 16.04                     | 17.5                   |             | 0.0 |
| 100               | 64QAM      | 1       | 1         | 15.96                    | 16.27                       | 15.97                     | 17.5                   |             | 0.0 |
| 100               | 256QAM     | 1       | 1         | 16.02                    | 16.35                       | 16.28                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 90                | QPSK       | 1       | 1         | 16.19                    | 16.23                       | 16.19                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 80                | QPSK       | 1       | 1         | 16.05                    | 16.34                       | 16.24                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 70                | QPSK       | 1       | 1         | 16.07                    | 16.15                       | 16.17                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 60                | QPSK       | 1       | 1         | 16.26                    | 16.29                       | 16.24                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 50                | QPSK       | 1       | 1         | 16.09                    | 16.22                       | 16.19                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 40                | QPSK       | 1       | 1         | 16.04                    | 16.28                       | 16.22                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 30                | QPSK       | 1       | 1         | 15.99                    | 16.21                       | 16.09                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 25                | QPSK       | 1       | 1         | 16.10                    | 16.30                       | 15.90                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 20                | QPSK       | 1       | 1         | 16.05                    | 16.10                       | 16.20                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 15                | QPSK       | 1       | 1         | 16.24                    | 16.27                       | 16.27                     | 17.5                   |             | 0.0 |
| Channel           |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)   |            |         |           |                          |                             |                           |                        |             |     |
| 10                | P12 BPSK   | 1       | 1         | 16.01                    | 16.34                       | 15.99                     | 17.5                   |             | 0.0 |

| Part27O_n77(HPUE)_Ant 9 |            |         |           |                          |                             |                           |                        |             |     |
|-------------------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|------------------------|-------------|-----|
| BW [MHz]                | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 100                     | P12 BPSK   | 1       | 1         | 18.71                    | 18.98                       | 18.94                     |                        |             |     |
| 100                     | P12 BPSK   | 1       | 137       | 18.91                    | 18.94                       | 18.76                     | 20.5                   |             | 0.0 |
| 100                     | P12 BPSK   | 1       | 271       | 19.05                    | 19.09                       | 18.70                     |                        |             |     |
| 100                     | P12 BPSK   | 135     | 0         | 18.93                    | 19.19                       | 18.85                     | 20.5                   |             | 0.0 |
| 100                     | P12 BPSK   | 135     | 69        | 18.79                    | 18.93                       | 18.64                     | 20.5                   |             | 0.0 |
| 100                     | P12 BPSK   | 135     | 138       | 18.94                    | 19.10                       | 18.72                     | 20.5                   |             | 0.0 |
| 100                     | P12 BPSK   | 270     | 0         | 18.97                    | 19.16                       | 18.78                     |                        |             |     |
| 100                     | QPSK       | 1       | 1         | 19.17                    | 19.26                       | 19.16                     |                        |             |     |
| 100                     | QPSK       | 1       | 137       | 18.81                    | 19.10                       | 18.84                     | 20.5                   |             | 0.0 |
| 100                     | QPSK       | 1       | 271       | 18.84                    | 19.10                       | 18.86                     |                        |             |     |
| 100                     | QPSK       | 135     | 0         | 18.97                    | 19.17                       | 18.84                     |                        |             |     |
| 100                     | QPSK       | 135     | 69        | 19.09                    | 19.22                       | 19.01                     | 20.5                   |             | 0.0 |
| 100                     | QPSK       | 135     | 138       | 18.81                    | 19.14                       | 18.89                     |                        |             |     |
| 100                     | QPSK       | 270     | 0         | 18.85                    | 19.20                       | 18.86                     | 20.5                   |             | 0.0 |
| 100                     | 16QAM      | 1       | 1         | 18.81                    | 19.20                       | 18.73                     | 20.5                   |             | 0.0 |
| 100                     | 64QAM      | 1       | 1         | 18.88                    | 19.02                       | 18.70                     | 20.5                   |             | 0.0 |
| 100                     | 256QAM     | 1       | 1         | 18.84                    | 18.93                       | 18.67                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 90                      | QPSK       | 1       | 1         | 649688                   | 656000                      | 662332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3745.02                  | 3840                        | 3924.98                   |                        |             |     |
| 90                      | QPSK       | 1       | 1         | 19.06                    | 19.05                       | 19.01                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 80                      | QPSK       | 1       | 1         | 649334                   | 656000                      | 662668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3740.51                  | 3840                        | 3920.99                   |                        |             |     |
| 80                      | QPSK       | 1       | 1         | 19.90                    | 19.01                       | 18.99                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 70                      | QPSK       | 1       | 1         | 649000                   | 656000                      | 663000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3735                     | 3840                        | 3945                      |                        |             |     |
| 70                      | QPSK       | 1       | 1         | 19.03                    | 18.98                       | 19.00                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 60                      | QPSK       | 1       | 1         | 648668                   | 656000                      | 663332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3740.52                  | 3840                        | 3920.98                   |                        |             |     |
| 60                      | QPSK       | 1       | 1         | 19.08                    | 19.21                       | 19.10                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 50                      | QPSK       | 1       | 1         | 648334                   | 656000                      | 663668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3725.01                  | 3840                        | 3954.99                   |                        |             |     |
| 50                      | QPSK       | 1       | 1         | 19.00                    | 18.99                       | 18.88                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 40                      | QPSK       | 1       | 1         | 648000                   | 656000                      | 664000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3720                     | 3840                        | 3960                      |                        |             |     |
| 40                      | QPSK       | 1       | 1         | 19.09                    | 19.02                       | 19.14                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 30                      | QPSK       | 1       | 1         | 647668                   | 656000                      | 664332                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3715.02                  | 3840                        | 3964.98                   |                        |             |     |
| 30                      | QPSK       | 1       | 1         | 19.10                    | 19.15                       | 19.06                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 25                      | QPSK       | 1       | 1         | 647334                   | 656000                      | 664668                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3712.1                   | 3840                        | 3957.0                    |                        |             |     |
| 25                      | QPSK       | 1       | 1         | 19.07                    | 19.10                       | 19.03                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 20                      | QPSK       | 1       | 1         | 647000                   | 656000                      | 664999                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3710.01                  | 3840                        | 3969.99                   |                        |             |     |
| 20                      | QPSK       | 1       | 1         | 18.91                    | 19.04                       | 19.00                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 15                      | QPSK       | 1       | 1         | 647168                   | 656000                      | 664832                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3707.52                  | 3840                        | 3972.48                   |                        |             |     |
| 15                      | QPSK       | 1       | 1         | 19.13                    | 19.12                       | 19.08                     | 20.5                   |             | 0.0 |
| Channel                 |            |         |           |                          |                             |                           |                        |             |     |
| Frequency (MHz)         |            |         |           |                          |                             |                           |                        |             |     |
| 10                      | P12 BPSK   | 1       | 1         | 647000                   | 656000                      | 665000                    | Tune-up limit<br>(dBm) | MPR<br>(dB) |     |
|                         |            |         |           | 3705                     | 3840                        | 3975                      |                        |             |     |
| 10                      | P12 BPSK   | 1       | 1         | 19.21                    | 19.12                       | 18.92                     | 20.5                   |             | 0.0 |

Part27Q\_n78\_Ant 9

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           | 633332                      |                                |                              |                        |             |
| Frequency (MHz) |            |         |           | 3499.98                     |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 1         | 16.42                       |                                |                              | 17.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       | 16.38                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 271       | 16.30                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 0         | 16.35                       |                                |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 69        | 16.26                       |                                |                              | 17.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       | 16.27                       |                                |                              | 17.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         | 16.42                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 1         | 16.58                       |                                |                              | 17.5                   | 0.0         |
| 100             | QPSK       | 1       | 137       | 16.48                       |                                |                              |                        |             |
| 100             | QPSK       | 1       | 271       | 16.22                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 0         | 16.32                       |                                |                              |                        |             |
| 100             | QPSK       | 135     | 69        | 16.54                       |                                |                              | 17.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       | 16.32                       |                                |                              |                        |             |
| 100             | QPSK       | 270     | 0         | 16.48                       |                                |                              | 17.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 16.36                       |                                |                              | 17.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         | 16.15                       |                                |                              | 17.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         | 16.45                       |                                |                              | 17.5                   | 0.0         |
| Channel         |            |         |           | 633000                      | 633334                         | 633668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3495                        | 3500.01                        | 3505.02                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 16.55                       | 16.36                          | 16.46                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 632995                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3490.02                     | 3490.01                        | 3510                         | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 16.31                       | 16.30                          | 16.42                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 632334                      | 633334                         | 634334                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465.01                     | 3500.01                        | 3515.01                      | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 16.41                       | 16.11                          | 16.48                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 632200                      | 633334                         | 634000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3480                        | 3500.01                        | 3520.02                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 16.49                       | 16.11                          | 16.21                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 631668                      | 633334                         | 635000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3475.02                     | 3500.01                        | 3525                         | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 16.50                       | 16.38                          | 16.43                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 631334                      | 633332                         | 635332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3470.01                     | 3499.98                        | 3529.98                      | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 16.31                       | 16.38                          | 16.20                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 631000                      | 633332                         | 635668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3465                        | 3499.98                        | 3534.99                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 16.51                       | 16.24                          | 16.35                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 630634                      | 633332                         | 635832                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.01                     | 3499.98                        | 3537.48                      | (dBm)                  | (dB)        |
| 25              | QPSK       | 1       | 1         | 16.43                       | 16.35                          | 16.27                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 630668                      | 633332                         | 636000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3460.02                     | 3499.98                        | 3540                         | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 16.58                       | 16.15                          | 16.49                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 630500                      | 633332                         | 636168                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3457.5                      | 3499.98                        | 3542.49                      | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 16.33                       | 16.22                          | 16.52                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 630334                      | 633332                         | 636332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3455.01                     | 3499.98                        | 3544.98                      | (dBm)                  | (dB)        |
| 10              | PI2 BPSK   | 1       | 1         | 16.48                       | 16.24                          | 16.54                        | 17.5                   | 0.0         |

Part27O\_n78\_Ant 9

| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|
| Channel         |            |         |           |                             | 650000                         |                              |                        |             |
| Frequency (MHz) |            |         |           |                             | 3750                           |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 1         |                             | 16.05                          |                              | 17.5                   | 0.0         |
| 100             | PI2 BPSK   | 1       | 137       |                             | 15.99                          |                              |                        |             |
| 100             | PI2 BPSK   | 1       | 271       |                             | 16.14                          |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 0         |                             | 16.00                          |                              |                        |             |
| 100             | PI2 BPSK   | 135     | 69        |                             | 15.76                          |                              | 17.5                   | 0.0         |
| 100             | PI2 BPSK   | 135     | 138       |                             | 15.92                          |                              | 17.5                   | 0.0         |
| 100             | PI2 BPSK   | 270     | 0         |                             | 16.05                          |                              |                        |             |
| 100             | QPSK       | 1       | 1         |                             | 16.21                          |                              | 17.5                   | 0.0         |
| 100             | QPSK       | 1       | 137       |                             | 15.96                          |                              |                        |             |
| 100             | QPSK       | 1       | 271       |                             | 15.88                          |                              |                        |             |
| 100             | QPSK       | 135     | 0         |                             | 15.94                          |                              |                        |             |
| 100             | QPSK       | 135     | 69        |                             | 16.18                          |                              | 17.5                   | 0.0         |
| 100             | QPSK       | 135     | 138       |                             | 16.06                          |                              |                        |             |
| 100             | QPSK       | 270     | 0         |                             | 16.15                          |                              | 17.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 15.96                          |                              | 17.5                   | 0.0         |
| 100             | 16QAM      | 1       | 1         |                             | 16.15                          |                              | 17.5                   | 0.0         |
| 100             | 256QAM     | 1       | 1         |                             | 16.04                          |                              | 17.5                   | 0.0         |
| Channel         |            |         |           | 648668                      | 650000                         | 650332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3745.02                     | 3750                           | 3754.98                      | (dBm)                  | (dB)        |
| 90              | QPSK       | 1       | 1         | 16.19                       | 16.11                          | 16.17                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 650668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3740.01                     | 3750                           | 3759.99                      | (dBm)                  | (dB)        |
| 80              | QPSK       | 1       | 1         | 16.19                       | 15.86                          | 16.19                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 651000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3735                        | 3750                           | 3765                         | (dBm)                  | (dB)        |
| 70              | QPSK       | 1       | 1         | 16.10                       | 15.90                          | 16.07                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 647668                      | 650000                         | 651332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3730.02                     | 3750                           | 3769.98                      | (dBm)                  | (dB)        |
| 60              | QPSK       | 1       | 1         | 16.11                       | 16.17                          | 16.18                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 648334                      | 650000                         | 651668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3725.01                     | 3750                           | 3774.99                      | (dBm)                  | (dB)        |
| 50              | QPSK       | 1       | 1         | 15.91                       | 16.07                          | 16.08                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 648000                      | 650000                         | 652000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3720                        | 3750                           | 3760                         | (dBm)                  | (dB)        |
| 40              | QPSK       | 1       | 1         | 16.10                       | 16.02                          | 16.04                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 647668                      | 650000                         | 652332                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3715.02                     | 3750                           | 3764.98                      | (dBm)                  | (dB)        |
| 30              | QPSK       | 1       | 1         | 16.21                       | 16.03                          | 16.11                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 647500                      | 650000                         | 652500                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3710.01                     | 3750                           | 3762.5                       | (dBm)                  | (dB)        |
| 25              | QPSK       | 1       | 1         | 15.98                       | 16.04                          | 16.12                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 647334                      | 650000                         | 652668                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3710.01                     | 3750                           | 3769.99                      | (dBm)                  | (dB)        |
| 20              | QPSK       | 1       | 1         | 16.16                       | 16.03                          | 15.93                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 647168                      | 650000                         | 652832                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3707.52                     | 3750                           | 3762.48                      | (dBm)                  | (dB)        |
| 15              | QPSK       | 1       | 1         | 16.08                       | 15.97                          | 15.99                        | 17.5                   | 0.0         |
| Channel         |            |         |           | 647000                      | 650000                         | 653000                       | Tune-up limit          | MPR         |
| Frequency (MHz) |            |         |           | 3705                        | 3750                           | 3765                         | (dBm)                  | (dB)        |
| 10              | PI2 BPSK   | 1       | 1         | 16.20                       | 15.83                          | 16.17                        | 17.5                   | 0.0         |

## Default Power

| BT 2.0    |         |                 | Ant 4               |       |       |       |       |       |       |       |       | Tune-up Limit |
|-----------|---------|-----------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| Mode      | Channel | Frequency (MHz) | Average power (dBm) |       |       |       |       |       |       |       |       |               |
|           |         |                 | Packet Type         |       |       |       |       |       |       |       |       |               |
|           |         |                 | DH1                 | DH3   | DH5   | 2DH1  | 2DH3  | 2DH5  | 3DH1  | 3DH3  | 3DH5  |               |
| Bluetooth | CH 0    | 2402            | 12.66               | 12.70 | 12.72 | 11.77 | 11.35 | 11.32 | 11.81 | 11.40 | 11.36 | 14.50         |
|           | CH 39   | 2441            | 13.65               | 13.74 | 13.82 | 13.55 | 13.17 | 13.10 | 13.40 | 13.05 | 12.93 |               |
|           | CH 78   | 2480            | 12.63               | 12.78 | 12.82 | 11.61 | 11.32 | 11.25 | 11.70 | 11.60 | 11.56 |               |

| BT 4.0 |               | Average power (dBm) |       |  |
|--------|---------------|---------------------|-------|--|
| Mode   | Channel       | Frequency (MHz)     | GFSK  |  |
| LE     | CH 00         | 2402                | 12.36 |  |
|        | CH 19         | 2440                | 13.87 |  |
|        | CH 39         | 2480                | 12.49 |  |
|        | Tune-up Limit |                     | 14.00 |  |

| BT 5.0 |               | Average power (dBm) |       |       |  |
|--------|---------------|---------------------|-------|-------|--|
| Mode   | Channel       | Frequency (MHz)     | 1Mbps | 2Mbps |  |
| LE     | CH 00         | 2402                | 12.36 | 12.44 |  |
|        | CH 19         | 2440                | 13.87 | 13.79 |  |
|        | CH 39         | 2480                | 12.49 | 12.73 |  |
|        | Tune-up Limit |                     | 14.00 |       |  |

| BT 2.0    |         |                 | Ant 6               |       |       |       |       |       |       |       |       |               |
|-----------|---------|-----------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| Mode      | Channel | Frequency (MHz) | Average power (dBm) |       |       |       |       |       |       |       |       | Tune-up Limit |
|           |         |                 | Packet Type         |       |       |       |       |       |       |       |       |               |
|           |         |                 | DH1                 | DH3   | DH5   | 2DH1  | 2DH3  | 2DH5  | 3DH1  | 3DH3  | 3DH5  |               |
| Bluetooth | CH 0    | 2402            | 12.49               | 12.54 | 12.76 | 11.41 | 11.12 | 10.98 | 11.19 | 10.98 | 10.95 | 14.50         |
|           | CH 39   | 2441            | 13.69               | 13.76 | 13.83 | 11.58 | 11.41 | 11.39 | 11.60 | 11.56 | 11.49 |               |
|           | CH 78   | 2480            | 12.98               | 13.01 | 13.19 | 11.32 | 11.08 | 11.03 | 11.00 | 10.86 | 10.83 |               |

| BT 4.0 |               | Average power (dBm) |       |  |
|--------|---------------|---------------------|-------|--|
| Mode   | Channel       | Frequency (MHz)     | GFSK  |  |
| LE     | CH 00         | 2402                | 12.57 |  |
|        | CH 19         | 2440                | 13.40 |  |
|        | CH 39         | 2480                | 12.78 |  |
|        | Tune-up Limit |                     | 14.00 |  |

| BT 5.0 |               | Average power (dBm) |       |       |  |
|--------|---------------|---------------------|-------|-------|--|
| Mode   | Channel       | Frequency (MHz)     | 1Mbps | 2Mbps |  |
| LE     | CH 00         | 2402                | 12.57 | 12.58 |  |
|        | CH 19         | 2440                | 13.40 | 13.44 |  |
|        | CH 39         | 2480                | 12.78 | 12.89 |  |
|        | Tune-up Limit |                     | 14.00 |       |  |

## Rec on Sim &amp; Hotspot on &amp; Body-worn Sim

| BT 2.0    |         |                 | Ant 4               |      |      |      |      |      |      |      |      |       |               |
|-----------|---------|-----------------|---------------------|------|------|------|------|------|------|------|------|-------|---------------|
| Mode      | Channel | Frequency (MHz) | Average power (dBm) |      |      |      |      |      |      |      |      |       | Tune-up Limit |
|           |         |                 | Packet Type         |      |      |      |      |      |      |      |      |       |               |
|           |         |                 | DH1                 | DH3  | DH5  | 2DH1 | 2DH3 | 2DH5 | 3DH1 | 3DH3 | 3DH5 |       |               |
| Bluetooth | CH 0    | 2402            | 8.70                | 8.70 | 8.80 | 5.00 | 5.00 | 5.10 | 5.10 | 5.10 | 5.20 | 10.00 |               |
|           | CH 39   | 2441            | 9.30                | 9.30 | 9.40 | 5.60 | 5.60 | 5.70 | 5.70 | 5.70 | 5.80 |       |               |
|           | CH 78   | 2480            | 7.70                | 7.70 | 8.00 | 3.60 | 3.60 | 3.70 | 3.70 | 3.70 | 3.80 |       |               |

| BT 4.0 |               | Average power (dBm) |       |  |
|--------|---------------|---------------------|-------|--|
| Mode   | Channel       | Frequency (MHz)     | GFSK  |  |
| LE     | CH 00         | 2402                | 8.69  |  |
|        | CH 19         | 2440                | 9.40  |  |
|        | CH 39         | 2480                | 7.70  |  |
|        | Tune-up Limit |                     | 10.00 |  |

| BT 5.0 |               | Average power (dBm) |       |       |  |
|--------|---------------|---------------------|-------|-------|--|
| Mode   | Channel       | Frequency (MHz)     | 1Mbps | 2Mbps |  |
| LE     | CH 00         | 2402                | 8.60  | 8.70  |  |
|        | CH 19         | 2440                | 9.40  | 9.50  |  |
|        | CH 39         | 2480                | 7.70  | 7.80  |  |
|        | Tune-up Limit |                     | 10.00 |       |  |

| BT 2.0    |         |                 | Ant 6               |       |       |       |       |       |       |       |       |       | Tune-up Limit |
|-----------|---------|-----------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| Mode      | Channel | Frequency (MHz) | Average power (dBm) |       |       |       |       |       |       |       |       |       |               |
|           |         |                 | Packet Type         |       |       |       |       |       |       |       |       |       |               |
|           |         |                 | DH1                 | DH3   | DH5   | 2DH1  | 2DH3  | 2DH5  | 3DH1  | 3DH3  | 3DH5  |       |               |
| Bluetooth | CH 0    | 2402            | 11.90               | 11.90 | 12.00 | 12.40 | 12.40 | 12.50 | 12.50 | 12.50 | 12.60 | 13.50 |               |
|           | CH 39   | 2441            | 12.70               | 12.70 | 12.80 | 13.10 | 13.10 | 13.20 | 13.20 | 13.20 | 13.30 |       |               |
|           | CH 78   | 2480            | 12.30               | 12.30 | 12.40 | 12.60 | 12.60 | 12.70 | 12.70 | 12.70 | 12.80 |       |               |

| BT 4.0 |               | Average power (dBm) |       |  |
|--------|---------------|---------------------|-------|--|
| Mode   | Channel       | Frequency (MHz)     | GFSK  |  |
| LE     | CH 00         | 2402                | 11.90 |  |
|        | CH 19         | 2440                | 12.80 |  |
|        | CH 39         | 2480                | 12.30 |  |
|        | Tune-up Limit |                     | 13.50 |  |

| BT 5.0 |               | Average power (dBm) |       |       |  |
|--------|---------------|---------------------|-------|-------|--|
| Mode   | Channel       | Frequency (MHz)     | 1Mbps | 2Mbps |  |
| LE     | CH 00         | 2402                | 11.90 | 12.00 |  |
|        | CH 19         | 2440                | 12.80 | 12.80 |  |
|        | CH 39         | 2480                | 12.40 | 12.40 |  |
|        | Tune-up Limit |                     | 13.50 |       |  |



| 2.4GHz WLAN_Ant 4+6 |         | Default Power   |                     | ● AI-Head Power Table, Standalone WLAN |                     | ● AI-Head Power Table, Standalone WLAN DBS |                     | ● AI-Head Power Table, Simultaneous WLAN+WWAN |                     | ● AI-Head Power Table, Simultaneous WLAN DBS+WWAN |                     | ● MHS (Mobile Hotspot) Power Table, Simultaneous WLAN+WWAN |                     | ● MHS (Mobile Hotspot) Power Table, Simultaneous WLAN DBS+WWAN |                     | ● Handheld Reduced Power Table, Standalone WLAN |                     | ● Handheld Reduced Power Table, Standalone WLAN DBS |                     | ● Handheld Reduced Power Table, Simultaneous WLAN+WWAN |                     | ● Handheld Reduced Power Table, Simultaneous WLAN DBS+WWAN |                     | ● Body-Worn Power Table, Standalone WLAN |                     | ● Body-Worn Power Table, Standalone WLAN DBS |                     | Duty Cycle %  |        |
|---------------------|---------|-----------------|---------------------|----------------------------------------|---------------------|--------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|------------------------------------------------------------|---------------------|----------------------------------------------------------------|---------------------|-------------------------------------------------|---------------------|-----------------------------------------------------|---------------------|--------------------------------------------------------|---------------------|------------------------------------------------------------|---------------------|------------------------------------------|---------------------|----------------------------------------------|---------------------|---------------|--------|
|                     |         |                 |                     |                                        |                     |                                            |                     |                                               |                     |                                                   |                     |                                                            |                     |                                                                |                     |                                                 |                     |                                                     |                     |                                                        |                     |                                                            |                     |                                          |                     |                                              |                     |               |        |
| Mode                | Channel | Frequency (MHz) | Average power (dBm) | Time-Up Limit                          | Average power (dBm) | Time-Up Limit                              | Average power (dBm) | Time-Up Limit                                 | Average power (dBm) | Time-Up Limit                                     | Average power (dBm) | Time-Up Limit                                              | Average power (dBm) | Time-Up Limit                                                  | Average power (dBm) | Time-Up Limit                                   | Average power (dBm) | Time-Up Limit                                       | Average power (dBm) | Time-Up Limit                                          | Average power (dBm) | Time-Up Limit                                              | Average power (dBm) | Time-Up Limit                            | Average power (dBm) | Time-Up Limit                                | Average power (dBm) | Time-Up Limit |        |
| 802.11b 1Mbps       | 1       | 2412            | 23.84               | 25.50                                  | 20.03               | 21.50                                      | 17.44               | 19.00                                         | 11.90               | 13.50                                             | 10.42               | 12.00                                                      | 12.36               | 14.00                                                          | 10.05               | 11.50                                           | 21.89               | 23.50                                               | 20.03               | 21.50                                                  | 16.85               | 18.50                                                      | 14.38               | 16.00                                    | 20.90               | 22.50                                        | 18.91               | 20.50         | 97.86  |
|                     | 6       | 2437            | 21.72               | 23.00                                  | 19.91               | 21.00                                      | 17.35               | 18.50                                         | 11.85               | 13.00                                             | 10.37               | 11.50                                                      | 12.31               | 13.50                                                          | 9.97                | 11.00                                           | 21.75               | 23.00                                               | 19.91               | 21.00                                                  | 16.73               | 18.00                                                      | 14.26               | 15.50                                    | 20.75               | 22.00                                        | 18.70               | 20.00         |        |
|                     | 11      | 2462            | 22.27               | 23.50                                  | 19.83               | 21.00                                      | 17.32               | 18.50                                         | 11.80               | 13.00                                             | 10.34               | 11.50                                                      | 12.33               | 13.50                                                          | 9.94                | 11.00                                           | 21.74               | 23.00                                               | 19.83               | 21.00                                                  | 16.68               | 18.00                                                      | 14.22               | 15.50                                    | 20.76               | 22.00                                        | 18.68               | 20.00         |        |
| 802.11g 6Mbps       | 1       | 2412            | 21.18               | 22.50                                  | 19.94               | 21.50                                      |                     | 19.00                                         | 11.90               | 13.50                                             |                     | 12.00                                                      | 14.00               | 11.50                                                          |                     | 11.50                                           | 22.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 21.18                                    | 22.50               |                                              | 20.50               | 99.45         |        |
|                     | 6       | 2437            | 22.64               | 24.00                                  | 19.90               | 21.50                                      |                     | 19.00                                         | 11.90               | 13.50                                             |                     | 12.00                                                      | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 21.04                                    | 22.50               |                                              | 20.50               |               |        |
|                     | 9       | 2452            | 21.94               | 23.50                                  | 19.86               | 21.50                                      |                     | 19.00                                         | 11.90               | 13.50                                             |                     | 12.00                                                      | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 20.90                                    | 22.50               |                                              | 20.50               |               |        |
|                     | 10      | 2457            | 21.36               | 23.00                                  | 19.81               | 21.50                                      |                     | 19.00                                         | 11.90               | 13.50                                             |                     | 12.00                                                      | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.00               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 20.79                                    | 22.50               |                                              | 20.50               |               |        |
|                     | 11      | 2462            | 17.11               | 18.50                                  | 17.11               | 18.50                                      |                     | 18.50                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 18.50               |                                                     |                     | 18.50                                                  | 18.50               |                                                            | 16.00               | 17.11                                    | 18.50               |                                              | 18.50               |               |        |
|                     | 1       | 2412            | 16.82               | 18.00                                  | 16.82               | 18.00                                      |                     | 18.00                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 18.00               |                                                     |                     | 18.00                                                  | 18.00               |                                                            | 16.00               | 16.82                                    | 18.00               |                                              | 18.00               |               |        |
|                     | 2       | 2417            | 22.28               | 23.50                                  | 20.01               | 21.50                                      |                     | 19.00                                         | 11.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 21.10                                    | 22.50               |                                              | 20.50               |               |        |
| 802.11n-HT20 MCS0   | 6       | 2437            | 22.66               | 24.00                                  | 19.97               | 21.50                                      |                     | 19.00                                         | 11.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 21.07                                    | 22.50               |                                              | 20.50               | 100.00        |        |
|                     | 9       | 2452            | 21.90               | 23.50                                  | 19.85               | 21.50                                      |                     | 19.00                                         | 11.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 20.83                                    | 22.50               |                                              | 20.50               |               |        |
|                     | 10      | 2457            | 19.18               | 20.50                                  | 19.18               | 20.50                                      |                     | 19.00                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 20.50               |                                                     |                     | 20.50                                                  | 18.50               |                                                            | 16.00               | 19.18                                    | 20.50               |                                              | 20.50               |               |        |
|                     | 11      | 2462            | 15.13               | 16.50                                  | 15.13               | 16.50                                      |                     | 16.50                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 16.50               |                                                     |                     | 16.50                                                  | 16.50               |                                                            | 16.00               | 15.13                                    | 16.50               |                                              | 16.50               |               |        |
| 802.11n-HT40 MCS0   | 3       | 2422            | 17.76               | 18.50                                  | 17.76               | 18.50                                      | Not Required        | 18.50                                         | Not Required        | 13.50                                             | Not Required        | 12.00                                                      | Not Required        | 14.00                                                          | Not Required        | 11.50                                           | Not Required        | 18.50                                               | Not Required        | 18.50                                                  | Not Required        | 18.50                                                      | Not Required        | 16.00                                    | 17.76               | 18.50                                        | Not Required        | 18.50         | 100.00 |
|                     | 6       | 2437            | 17.98               | 19.50                                  | 17.98               | 19.50                                      |                     | 19.00                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 19.50               |                                                     |                     | 19.50                                                  | 18.50               |                                                            | 16.00               | 17.98                                    | 19.50               |                                              | 19.50               |               |        |
|                     | 9       | 2452            | 15.55               | 17.00                                  | 15.55               | 17.00                                      |                     | 17.00                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 17.00               |                                                     |                     | 17.00                                                  | 17.00               |                                                            | 16.00               | 15.55                                    | 17.00               |                                              | 17.00               |               |        |
| 802.11ax-HE20 MCS0  | 1       | 2412            | 16.85               | 17.50                                  | 16.85               | 17.50                                      |                     | 17.50                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 17.50               |                                                     |                     | 17.50                                                  | 17.50               |                                                            | 16.00               | 16.85                                    | 17.50               |                                              | 17.50               | 100.00        |        |
|                     | 2       | 2417            | 22.36               | 24.00                                  | 19.88               | 21.50                                      |                     | 19.00                                         | 11.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 20.87                                    | 22.50               |                                              | 20.50               |               |        |
|                     | 6       | 2437            | 22.75               | 24.00                                  | 19.97               | 21.50                                      |                     | 19.00                                         | 11.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 21.11                                    | 22.50               |                                              | 20.50               |               |        |
|                     | 9       | 2452            | 22.05               | 23.50                                  | 19.88               | 21.50                                      |                     | 19.00                                         | 11.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 23.50               |                                                     |                     | 21.50                                                  | 18.50               |                                                            | 16.00               | 20.98                                    | 22.50               |                                              | 20.50               |               |        |
|                     | 10      | 2457            | 19.23               | 20.50                                  | 19.23               | 20.50                                      |                     | 19.00                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 20.50               |                                                     |                     | 20.50                                                  | 18.50               |                                                            | 16.00               | 19.23                                    | 20.50               |                                              | 20.50               |               |        |
|                     | 11      | 2462            | 15.19               | 16.50                                  | 15.19               | 16.50                                      |                     | 16.50                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 16.50               |                                                     |                     | 16.50                                                  | 16.50               |                                                            | 16.00               | 15.19                                    | 16.50               |                                              | 16.50               |               |        |
| 802.11ax-HE40 MCS0  | 3       | 2422            | 17.81               | 19.50                                  | 17.81               | 19.50                                      |                     | 19.00                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 19.50               |                                                     |                     | 19.50                                                  | 18.50               |                                                            | 16.00               | 17.81                                    | 19.50               |                                              | 19.50               | 100.00        |        |
|                     | 6       | 2437            | 18.08               | 19.50                                  | 18.08               | 19.50                                      |                     | 19.00                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 19.50               |                                                     |                     | 19.50                                                  | 18.50               |                                                            | 16.00               | 18.08                                    | 19.50               |                                              | 19.50               |               |        |
|                     | 9       | 2452            | 15.70               | 16.50                                  | 15.70               | 16.50                                      |                     | 16.00                                         | 13.50               | 12.00                                             |                     |                                                            | 14.00               | 11.50                                                          |                     | 11.50                                           | 16.50               |                                                     |                     | 16.50                                                  | 16.50               |                                                            | 16.00               | 15.70                                    | 16.50               |                                              | 16.50               |               |        |

| 5.2GHz WLAN_Ant 5+7 |         |                 |                     | Default Power |                     | ● AI-Head Power Table, Standalone WLAN |                     | ● AI-Head Power Table, Standalone WLAN DBS |                     | ● AI-Head Power Table, Simultaneous WLAN DBS+WWAN |                     | ● MHS (Mobile Hotspot) Power Table, Simultaneous WLAN+WWAN |                     | ● Body-Worn Power Table, Simultaneous WLAN DBS+WWAN |                     | ● Handheld Reduced Power Table, Standalone WLAN |                     | ● Handheld Reduced Power Table, Standalone WLAN DBS |                     | ● Handheld Reduced Power Table, Simultaneous WLAN+WWAN |                     | ● Handheld Reduced Power Table, Simultaneous WLAN DBS+WWAN |                     | ● Body-Worn Power Table, Standalone WLAN |                     | ● Body-Worn Power Table, Standalone WLAN DBS |                     | Duty Cycle %  |        |
|---------------------|---------|-----------------|---------------------|---------------|---------------------|----------------------------------------|---------------------|--------------------------------------------|---------------------|---------------------------------------------------|---------------------|------------------------------------------------------------|---------------------|-----------------------------------------------------|---------------------|-------------------------------------------------|---------------------|-----------------------------------------------------|---------------------|--------------------------------------------------------|---------------------|------------------------------------------------------------|---------------------|------------------------------------------|---------------------|----------------------------------------------|---------------------|---------------|--------|
| Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit                          | Average power (dBm) | Tune-Up Limit                              | Average power (dBm) | Tune-Up Limit                                     | Average power (dBm) | Tune-Up Limit                                              | Average power (dBm) | Tune-Up Limit                                       | Average power (dBm) | Tune-Up Limit                                   | Average power (dBm) | Tune-Up Limit                                       | Average power (dBm) | Tune-Up Limit                                          | Average power (dBm) | Tune-Up Limit                                              | Average power (dBm) | Tune-Up Limit                            | Average power (dBm) | Tune-Up Limit                                | Average power (dBm) | Tune-Up Limit |        |
| 802.11a 6Mbps       | 36      | 5180            | 20.72               | 21.50         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 20.72               | 21.50                                               |                     | 21.50                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               | 99.25  |
|                     | 40      | 5200            | 21.68               | 23.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 21.68               | 23.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
|                     | 44      | 5220            | 20.64               | 21.50         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 20.64               | 21.50                                               |                     | 21.50                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
|                     | 48      | 5240            | 21.22               | 23.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 21.22               | 23.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
| 802.11n-HT20 MCS0   | 36      | 5180            | 19.65               | 20.50         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 19.65               | 20.50                                               |                     | 20.50                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               | 100.00 |
|                     | 40      | 5200            | 20.67               | 22.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 20.67               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
|                     | 44      | 5220            | 20.60               | 22.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 20.60               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
|                     | 48      | 5240            | 20.72               | 22.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 20.72               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
| 802.11n-HT40 MCS0   | 36      | 5180            | 17.27               | 18.50         |                     | 17.50                                  | Not Required        | 15.00                                      | 9.00                | Not Required                                      | Not Required        | 13.00                                                      | 17.27               | 18.50                                               | 17.27               | 18.50                                           | 17.27               | 18.50                                               | Not Required        | 18.50                                                  | 17.27               | 18.50                                                      | Not Required        | 16.50                                    | 18.50               |                                              | 18.50               |               | 100.00 |
|                     | 40      | 5200            | 21.26               | 22.50         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 21.26               | 22.50                                               | 20.74               | 22.00                                           | 18.26               | 19.50                                               |                     | 16.50                                                  | 16.68               | 20.00                                                      | 18.50               |                                          | 18.50               |                                              |                     |               |        |
|                     | 36      | 5180            | 19.70               | 21.00         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 19.70               | 21.00                                               |                     | 21.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
|                     | 44      | 5200            | 20.72               | 22.00         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 20.72               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
| 802.11ac-VHT20 MCS0 | 44      | 5220            | 20.65               | 22.00         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 20.65               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               | 100.00 |
|                     | 48      | 5240            | 20.75               | 22.00         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 20.75               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 17.30               | 19.00         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 17.30               | 19.00                                               |                     | 19.00                                           |                     | 19.00                                               |                     | 16.50                                                  |                     | 19.00                                                      |                     | 16.50                                    |                     |                                              |                     |               | 100.00 |
|                     | 46      | 5230            | 21.29               | 22.50         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 21.29               | 22.50                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
| 802.11ac-VHT80 MCS0 | 42      | 5210            | 17.14               | 18.50         | 16.07               | 17.50                                  | 13.84               | 15.00                                      | 7.80                | 9.00                                              | 11.72               | 13.00                                                      | 17.14               | 18.50                                               |                     | 18.50                                           |                     | 18.50                                               | 15.29               | 16.50                                                  |                     | 18.50                                                      | 17.14               | 18.50                                    |                     | 18.50                                        |                     |               | 100.00 |
|                     | 36      | 5180            | 19.75               | 21.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 19.75               | 21.00                                               |                     | 21.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
| 802.11ax-HE20 MCS0  | 40      | 5200            | 20.75               | 22.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 20.75               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               | 100.00 |
|                     | 44      | 5220            | 20.69               | 22.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 20.69               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
|                     | 48      | 5240            | 20.76               | 22.00         |                     | 17.50                                  |                     | 15.00                                      |                     | 9.00                                              |                     | 13.00                                                      | 20.76               | 22.00                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
|                     | 38      | 5190            | 17.35               | 19.00         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 17.35               | 19.00                                               |                     | 19.00                                           |                     | 19.00                                               |                     | 16.50                                                  |                     | 19.00                                                      |                     | 16.50                                    |                     |                                              |                     |               |        |
| 802.11ax-HE40 MCS0  | 46      | 5230            | 21.35               | 22.50         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 21.35               | 22.50                                               |                     | 22.00                                           |                     | 19.50                                               |                     | 16.50                                                  |                     | 20.00                                                      |                     | 16.50                                    |                     |                                              |                     |               | 100.00 |
|                     | 42      | 5210            | 17.19               | 18.50         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 17.19               | 18.50                                               |                     | 18.50                                           |                     | 18.50                                               |                     | 16.50                                                  |                     | 18.50                                                      |                     | 18.50                                    |                     |                                              |                     |               |        |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 17.19               | 18.50         |                     | 17.50                                  |                     | 15.00                                      | 9.00                |                                                   |                     | 13.00                                                      | 17.19               | 18.50                                               |                     | 18.50                                           |                     | 18.50                                               |                     | 16.50                                                  |                     | 18.50                                                      |                     | 18.50                                    |                     |                                              |                     |               | 100.00 |



| 5.5GHz WLAN_Ant 5+7  |         |                 | Default Power       |               | ● AI-Head Power Table, Standalone WLAN |               | ● AI-Head Power Table, Standalone WLAN DBS |               | ● AI-Head Power Table, Simultaneous WLAN DBS+WWAN |               | ● Handheld Reduced Power Table, Standalone WLAN |               | ● Handheld Reduced Power Table, Standalone WLAN DBS |               | ● Handheld Reduced Power Table, Simultaneous WLAN+WWAN |               | ● Handheld Reduced Power Table, Simultaneous WLAN DBS+WWAN |               | ● Body-Worn Power Table, Standalone WLAN |               | ● Body-Worn Power Table, Standalone WLAN DBS |               | ● Body-Worn Power Table, Simultaneous WLAN+WWAN DBS+WWAN |               | Duty Cycle % |        |
|----------------------|---------|-----------------|---------------------|---------------|----------------------------------------|---------------|--------------------------------------------|---------------|---------------------------------------------------|---------------|-------------------------------------------------|---------------|-----------------------------------------------------|---------------|--------------------------------------------------------|---------------|------------------------------------------------------------|---------------|------------------------------------------|---------------|----------------------------------------------|---------------|----------------------------------------------------------|---------------|--------------|--------|
| Mode                 | Channel | Frequency (MHz) | Average power (dBm) | Time-Up Limit | Average power (dBm)                    | Time-Up Limit | Average power (dBm)                        | Time-Up Limit | Average power (dBm)                               | Time-Up Limit | Average power (dBm)                             | Time-Up Limit | Average power (dBm)                                 | Time-Up Limit | Average power (dBm)                                    | Time-Up Limit | Average power (dBm)                                        | Time-Up Limit | Average power (dBm)                      | Time-Up Limit | Average power (dBm)                          | Time-Up Limit | Average power (dBm)                                      | Time-Up Limit |              |        |
| 802.11a 6Mbps        | 100     | 5500            | 21.32               | 23.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.32                                           | 23.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 99.25        |        |
|                      | 116     | 5580            | 21.16               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.16                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 124     | 5620            | 21.02               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.02                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 132     | 5660            | 21.01               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.01                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 140     | 5700            | 21.55               | 23.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.55                                           | 23.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
| 802.11n-HT20 MCS9    | 144     | 5720            | 21.09               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.09                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 100.00       |        |
|                      | 100     | 5500            | 20.61               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.61                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 116     | 5580            | 20.62               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.62                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 124     | 5620            | 20.51               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.51                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 132     | 5660            | 20.30               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.30                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
| 802.11n-HT40 MCS9    | 140     | 5700            | 18.41               | 20.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 18.41                                           | 20.00         |                                                     | 20.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 100.00       |        |
|                      | 144     | 5720            | 20.49               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.49                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 102     | 5510            | 19.69               | 21.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 19.69                                           | 21.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 110     | 5550            | 21.21               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.21                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 126     | 5630            | 21.02               | 22.50         | Not Required                           |               | 18.50                                      |               | 18.50                                             |               | 11.50                                           | 21.02         | 22.50                                               | Not Required  |                                                        | 18.50         |                                                            | 18.50         |                                          | 15.50         | 19.50                                        | Not Required  | 18.00                                                    | 12.00         |              |        |
| 802.11ac-VHT20 MCS9  | 134     | 5670            | 21.06               | 22.50         |                                        | 18.50         | Not Required                               | 18.50         | Not Required                                      |               | 11.50                                           | 21.06         | 22.50                                               |               | 21.00                                                  | Not Required  | 18.50                                                      | Not Required  |                                          | 15.50         | 19.50                                        | Not Required  | 18.00                                                    | 12.00         | Not Required | 100.00 |
|                      | 142     | 5710            | 20.90               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.90                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 100     | 5500            | 20.65               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.65                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 116     | 5580            | 20.65               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.65                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 124     | 5620            | 20.54               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.54                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
| 802.11ac-VHT40 MCS9  | 132     | 5660            | 20.36               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.36                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 100.00       |        |
|                      | 140     | 5700            | 18.45               | 20.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 18.45                                           | 20.00         |                                                     | 20.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 144     | 5720            | 20.54               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.54                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 102     | 5510            | 19.75               | 21.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 19.75                                           | 21.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 110     | 5550            | 21.26               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.26                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
| 802.11ac-VHT80 MCS9  | 126     | 5630            | 21.06               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.06                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 100.00       |        |
|                      | 134     | 5670            | 21.09               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.09                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 142     | 5710            | 20.93               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.93                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 106     | 5530            | 19.14               | 20.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 19.14                                           | 20.50         | 19.14                                               | 20.50         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 122     | 5610            | 21.14               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.14                                           | 22.50         | 19.72                                               | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
| 802.11ac-VHT160 MCS9 | 138     | 5680            | 20.97               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.97                                           | 22.50         | 19.59                                               | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 100.00       |        |
|                      | 114     | 5570            | 19.03               | 20.50         | 17.11                                  | 18.50         | 15.14                                      | 18.50         | 10.08                                             | 11.50         | 19.03                                           | 20.50         |                                                     | 20.50         | 17.11                                                  | 18.50         | 14.05                                                      | 15.50         | 18.08                                    | 19.50         | 16.76                                        | 18.00         | 10.60                                                    | 12.00         |              | 100.00 |
|                      | 100     | 5500            | 20.69               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.69                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 116     | 5580            | 20.68               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.68                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 124     | 5620            | 20.58               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.58                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
| 802.11ax-HE20 MCS9   | 132     | 5660            | 20.40               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.40                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 100.00       |        |
|                      | 140     | 5700            | 18.47               | 20.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 18.47                                           | 20.00         |                                                     | 20.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 144     | 5720            | 20.58               | 22.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 20.58                                           | 22.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 102     | 5510            | 19.80               | 21.00         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 19.80                                           | 21.00         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 110     | 5550            | 21.33               | 22.50         | Not Required                           |               | 18.50                                      | Not Required  | 18.50                                             | Not Required  |                                                 | 11.50         | 21.33                                               | 22.50         |                                                        | 21.00         | Not Required                                               | 18.50         | Not Required                             |               | 15.50                                        | 19.50         | Not Required                                             | 18.00         |              | 12.00  |
| 802.11ax-HE40 MCS9   | 126     | 5630            | 21.12               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.12                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 100.00       |        |
|                      | 134     | 5670            | 21.15               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.15                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 142     | 5710            | 21.02               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.02                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 106     | 5530            | 19.19               | 20.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 19.19                                           | 20.50         |                                                     | 20.50         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
|                      | 122     | 5610            | 21.19               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.19                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |
| 802.11ax-HE160 MCS9  | 138     | 5680            | 21.01               | 22.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 21.01                                           | 22.50         |                                                     | 21.00         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               | 100.00       |        |
|                      | 114     | 5570            | 19.09               | 20.50         |                                        | 18.50         |                                            | 18.50         |                                                   | 11.50         | 19.09                                           | 20.50         |                                                     | 20.50         | 18.50                                                  |               | 18.50                                                      |               | 15.50                                    | 19.50         |                                              | 18.00         | 12.00                                                    |               |              |        |