

# Conducted Full Power Mode for WWAN

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   | 32.41                     | 32.48 | 32.40 | 33.50               | 23.41                     | 23.48 | 23.40 | 24.50               |
| GPRS 1 Tx slot  | 32.40                     | 32.46 | 32.39 | 33.50               | 23.40                     | 23.46 | 23.39 | 24.50               |
| GPRS 2 Tx slots | 31.58                     | 31.60 | 31.59 | 32.50               | 25.58                     | 25.60 | 25.59 | 26.50               |
| GPRS 4 Tx slots | 29.79                     | 29.81 | 29.80 | 31.00               | 25.53                     | 25.55 | 25.54 | 26.74               |
| GPRS 8 Tx slots | 28.64                     | 28.67 | 28.66 | 30.00               | 25.64                     | 25.67 | 25.66 | 27.00               |
| EDGE 1 Tx slot  | 27.00                     | 26.91 | 27.00 | 28.00               | 18.00                     | 17.91 | 18.00 | 19.00               |
| EDGE 2 Tx slots | 25.92                     | 25.74 | 25.88 | 26.50               | 19.92                     | 19.74 | 19.88 | 20.50               |
| EDGE 3 Tx slots | 23.77                     | 23.60 | 23.80 | 24.50               | 19.51                     | 19.34 | 19.34 | 20.24               |
| EDGE 4 Tx slots | 22.53                     | 22.36 | 22.37 | 23.00               | 19.53                     | 19.36 | 19.37 | 20.00               |

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| TX Channel      | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   | 29.00                     | 29.21 | 29.70  | 30.50               | 20.00                     | 20.21 | 20.70  | 21.50               |
| GPRS 1 Tx slot  | 28.99                     | 29.20 | 29.68  | 30.50               | 19.99                     | 20.20 | 20.68  | 21.50               |
| GPRS 2 Tx slots | 28.27                     | 28.47 | 28.94  | 30.00               | 22.27                     | 22.47 | 22.94  | 24.00               |
| GPRS 4 Tx slots | 26.55                     | 26.72 | 27.21  | 28.00               | 22.29                     | 22.46 | 22.95  | 23.74               |
| GPRS 8 Tx slots | 25.46                     | 25.62 | 26.09  | 27.00               | 22.46                     | 22.62 | 23.09  | 24.00               |
| EDGE 1 Tx slot  | 25.62                     | 25.54 | 25.86  | 26.50               | 16.82                     | 16.54 | 16.88  | 17.50               |
| EDGE 2 Tx slots | 24.91                     | 24.67 | 25.00  | 25.50               | 18.91                     | 18.67 | 19.00  | 19.50               |
| EDGE 3 Tx slots | 23.05                     | 22.74 | 23.02  | 24.00               | 18.79                     | 18.48 | 18.76  | 19.74               |
| EDGE 4 Tx slots | 22.00                     | 21.70 | 22.01  | 23.00               | 19.00                     | 18.70 | 19.01  | 20.00               |

| Band                               | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|------------------------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
|                                    | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| TX Channel                         | 9662     | 9800  | 9938   |                     | 1637     | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
| Rx Channel                         | 1952.4   | 1960  | 1967.6 |                     | 1712.4   | 1722.6 | 1752.4 |                     | 826.4   | 836.4 | 846.6 |                     |
| Frequency (MHz)                    | 1952.4   | 1960  | 1967.6 |                     | 1712.4   | 1722.6 | 1752.4 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps           | 22.13    | 22.02 | 22.35  | 24.00               | 22.76    | 22.54  | 22.52  | 24.00               | 22.35   | 22.30 | 22.37 | 24.00               |
| 3GPP Rel 99 RMC 12.2Kbps           | 22.15    | 22.04 | 22.37  | 24.00               | 22.78    | 22.56  | 22.54  | 24.00               | 22.37   | 22.40 | 22.38 | 24.00               |
| 3GPP Rel 6 HSDPA Subtest-1         | 21.27    | 21.07 | 21.42  | 23.00               | 21.88    | 21.64  | 21.40  | 23.00               | 21.45   | 21.45 | 21.51 | 23.00               |
| 3GPP Rel 6 HSDPA Subtest-2         | 21.22    | 21.02 | 21.33  | 23.00               | 21.77    | 21.58  | 21.57  | 23.00               | 21.41   | 21.33 | 21.36 | 23.00               |
| 3GPP Rel 6 HSDPA Subtest-3         | 20.67    | 20.52 | 20.91  | 22.50               | 21.25    | 21.12  | 21.04  | 22.50               | 20.93   | 20.86 | 20.89 | 22.50               |
| 3GPP Rel 6 HSDPA Subtest-4         | 20.72    | 20.51 | 20.90  | 22.50               | 21.28    | 21.09  | 21.04  | 22.50               | 20.90   | 20.81 | 20.84 | 22.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-1      | 21.20    | 21.05 | 21.29  | 23.00               | 21.79    | 21.50  | 21.25  | 23.00               | 21.38   | 21.34 | 21.43 | 23.00               |
| 3GPP Rel 8 DC-HSDPA Subtest-2      | 21.12    | 21.01 | 21.25  | 23.00               | 21.70    | 21.50  | 21.44  | 23.00               | 21.30   | 21.19 | 21.26 | 23.00               |
| 3GPP Rel 8 DC-HSDPA Subtest-3      | 20.60    | 20.51 | 20.77  | 22.50               | 21.15    | 21.03  | 20.96  | 22.50               | 20.86   | 20.72 | 20.82 | 22.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-4      | 20.63    | 20.50 | 20.77  | 22.50               | 21.13    | 20.95  | 20.93  | 22.50               | 20.81   | 20.72 | 20.69 | 22.50               |
| 3GPP Rel 6 HSUPA Subtest-1         | 19.31    | 19.16 | 19.52  | 21.00               | 19.89    | 19.68  | 19.68  | 21.00               | 19.48   | 19.46 | 19.50 | 21.00               |
| 3GPP Rel 6 HSUPA Subtest-2         | 19.23    | 19.12 | 19.47  | 21.00               | 19.86    | 19.67  | 19.63  | 21.00               | 19.49   | 19.46 | 19.42 | 21.00               |
| 3GPP Rel 6 HSUPA Subtest-3         | 20.29    | 20.15 | 20.48  | 21.50               | 20.92    | 20.68  | 20.70  | 21.50               | 20.50   | 20.48 | 20.48 | 21.50               |
| 3GPP Rel 6 HSUPA Subtest-4         | 19.16    | 19.11 | 19.19  | 20.50               | 19.40    | 19.15  | 19.19  | 20.50               | 19.17   | 19.20 | 19.22 | 20.50               |
| 3GPP Rel 6 HSUPA Subtest-5         | 20.30    | 20.10 | 20.30  | 21.50               | 20.80    | 20.60  | 20.60  | 21.50               | 20.50   | 20.40 | 20.30 | 21.50               |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 | 19.91    | 19.89 | 19.95  | 21.00               | 20.38    | 20.34  | 20.31  | 21.00               | 20.01   | 20.05 | 20.00 | 21.00               |



| Band 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) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 20              | QPSK       | 1       | 0         | 22.27               | 22.09                  | 22.10                | 24                  | 0        |    |   |  |  |
| 20              | QPSK       | 1       | 49        | 22.36               | 22.37                  | 22.25                |                     |          |    |   |  |  |
| 20              | QPSK       | 1       | 99        | 22.00               | 22.11                  | 22.08                |                     |          |    |   |  |  |
| 20              | QPSK       | 50      | 0         | 21.31               | 21.35                  | 21.28                |                     |          |    |   |  |  |
| 20              | QPSK       | 50      | 24        | 21.27               | 21.24                  | 21.24                | 23                  | 1        |    |   |  |  |
| 20              | QPSK       | 50      | 50        | 21.20               | 21.11                  | 21.00                |                     |          |    |   |  |  |
| 20              | QPSK       | 100     | 0         | 21.26               | 21.27                  | 21.15                |                     |          |    |   |  |  |
| 20              | 16QAM      | 1       | 0         | 21.56               | 21.42                  | 21.46                |                     |          |    |   |  |  |
| 20              | 16QAM      | 1       | 49        | 21.72               | 21.68                  | 21.66                | 23                  | 1        |    |   |  |  |
| 20              | 16QAM      | 1       | 99        | 21.29               | 21.25                  | 21.18                |                     |          |    |   |  |  |
| 20              | 16QAM      | 50      | 0         | 20.26               | 20.26                  | 20.27                |                     |          |    |   |  |  |
| 20              | 16QAM      | 50      | 24        | 20.25               | 20.33                  | 20.30                |                     |          |    |   |  |  |
| 20              | 16QAM      | 100     | 0         | 20.36               | 20.36                  | 20.27                | 22                  | 2        |    |   |  |  |
| 20              | 16QAM      | 100     | 0         | 20.30               | 20.27                  | 20.19                |                     |          |    |   |  |  |
| 20              | 64QAM      | 1       | 0         | 20.51               | 20.37                  | 20.37                |                     |          |    |   |  |  |
| 20              | 64QAM      | 1       | 49        | 20.61               | 20.55                  | 20.52                |                     |          |    |   |  |  |
| 20              | 64QAM      | 1       | 99        | 20.15               | 20.24                  | 20.20                | 22                  | 2        |    |   |  |  |
| 20              | 64QAM      | 50      | 0         | 19.28               | 19.25                  | 19.28                |                     |          |    |   |  |  |
| 20              | 64QAM      | 50      | 24        | 19.34               | 19.29                  | 19.29                |                     |          |    |   |  |  |
| 20              | 64QAM      | 50      | 50        | 19.32               | 19.16                  | 19.04                |                     |          |    |   |  |  |
| 20              | 64QAM      | 100     | 0         | 19.33               | 19.23                  | 19.20                | 21                  | 3        |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 15              | QPSK       | 1       | 0         | 22.24               | 22.04                  | 22.06                |                     |          | 24 | 0 |  |  |
| 15              | QPSK       | 1       | 37        | 22.32               | 22.31                  | 22.17                |                     |          |    |   |  |  |
| 15              | QPSK       | 1       | 74        | 22.01               | 22.04                  | 22.00                |                     |          |    |   |  |  |
| 15              | QPSK       | 36      | 0         | 21.25               | 21.25                  | 21.20                |                     |          |    |   |  |  |
| 15              | QPSK       | 36      | 20        | 21.18               | 21.17                  | 21.20                | 23                  | 1        |    |   |  |  |
| 15              | QPSK       | 36      | 39        | 21.13               | 21.04                  | 21.04                |                     |          |    |   |  |  |
| 15              | QPSK       | 75      | 0         | 21.18               | 21.21                  | 21.07                |                     |          |    |   |  |  |
| 15              | 16QAM      | 1       | 0         | 21.48               | 21.32                  | 21.41                |                     |          |    |   |  |  |
| 15              | 16QAM      | 1       | 37        | 21.65               | 21.60                  | 21.57                | 23                  | 1        |    |   |  |  |
| 15              | 16QAM      | 1       | 74        | 21.25               | 21.14                  | 21.12                |                     |          |    |   |  |  |
| 15              | 16QAM      | 36      | 0         | 20.23               | 20.22                  | 20.17                |                     |          |    |   |  |  |
| 15              | 16QAM      | 36      | 20        | 20.25               | 20.29                  | 20.24                |                     |          |    |   |  |  |
| 15              | 16QAM      | 36      | 39        | 20.33               | 20.12                  | 20.01                | 22                  | 2        |    |   |  |  |
| 15              | 16QAM      | 75      | 0         | 20.26               | 20.17                  | 20.15                |                     |          |    |   |  |  |
| 15              | 64QAM      | 1       | 0         | 20.35               | 20.16                  | 20.15                |                     |          |    |   |  |  |
| 15              | 64QAM      | 1       | 37        | 20.53               | 20.46                  | 20.48                |                     |          |    |   |  |  |
| 15              | 64QAM      | 1       | 74        | 20.11               | 20.17                  | 20.10                | 22                  | 2        |    |   |  |  |
| 15              | 64QAM      | 36      | 0         | 19.22               | 19.19                  | 19.20                |                     |          |    |   |  |  |
| 15              | 64QAM      | 36      | 20        | 19.29               | 19.26                  | 19.23                |                     |          |    |   |  |  |
| 15              | 64QAM      | 36      | 39        | 19.26               | 19.13                  | 19.04                |                     |          |    |   |  |  |
| 15              | 64QAM      | 75      | 0         | 19.28               | 19.20                  | 19.12                | 21                  | 3        |    |   |  |  |
| 15              | 64QAM      | 75      | 0         | 19.28               | 19.20                  | 19.12                |                     |          |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 10              | QPSK       | 1       | 0         | 22.20               | 22.00                  | 22.07                | 24                  | 0        |    |   |  |  |
| 10              | QPSK       | 1       | 25        | 22.32               | 22.29                  | 22.18                |                     |          |    |   |  |  |
| 10              | QPSK       | 1       | 49        | 22.02               | 22.04                  | 22.00                |                     |          |    |   |  |  |
| 10              | QPSK       | 25      | 0         | 21.25               | 21.32                  | 21.21                |                     |          |    |   |  |  |
| 10              | QPSK       | 25      | 12        | 21.17               | 21.20                  | 21.19                | 23                  | 1        |    |   |  |  |
| 10              | QPSK       | 25      | 25        | 21.17               | 21.03                  | 21.07                |                     |          |    |   |  |  |
| 10              | QPSK       | 50      | 0         | 21.19               | 21.24                  | 21.09                |                     |          |    |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.49               | 21.38                  | 21.43                |                     |          |    |   |  |  |
| 10              | 16QAM      | 1       | 25        | 21.62               | 21.63                  | 21.58                | 23                  | 1        |    |   |  |  |
| 10              | 16QAM      | 1       | 49        | 21.25               | 21.16                  | 21.10                |                     |          |    |   |  |  |
| 10              | 16QAM      | 25      | 0         | 20.18               | 20.20                  | 20.17                |                     |          |    |   |  |  |
| 10              | 16QAM      | 25      | 12        | 20.25               | 20.25                  | 20.26                |                     |          |    |   |  |  |
| 10              | 16QAM      | 25      | 25        | 20.26               | 20.09                  | 20.05                | 22                  | 2        |    |   |  |  |
| 10              | 16QAM      | 50      | 0         | 20.23               | 20.22                  | 20.11                |                     |          |    |   |  |  |
| 10              | 64QAM      | 1       | 0         | 20.42               | 20.30                  | 20.27                |                     |          |    |   |  |  |
| 10              | 64QAM      | 1       | 25        | 20.51               | 20.52                  | 20.48                |                     |          |    |   |  |  |
| 10              | 64QAM      | 1       | 49        | 20.07               | 20.18                  | 20.13                | 22                  | 2        |    |   |  |  |
| 10              | 64QAM      | 25      | 0         | 19.19               | 19.20                  | 19.23                |                     |          |    |   |  |  |
| 10              | 64QAM      | 25      | 12        | 19.26               | 19.21                  | 19.24                |                     |          |    |   |  |  |
| 10              | 64QAM      | 25      | 25        | 19.25               | 19.08                  | 19.09                |                     |          |    |   |  |  |
| 10              | 64QAM      | 50      | 0         | 19.26               | 19.15                  | 19.15                | 21                  | 3        |    |   |  |  |
| 10              | 64QAM      | 50      | 0         | 19.26               | 19.15                  | 19.15                |                     |          |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 5               | QPSK       | 1       | 0         | 22.19               | 22.04                  | 22.00                | 24                  | 0        |    |   |  |  |
| 5               | QPSK       | 1       | 12        | 22.31               | 22.32                  | 22.22                |                     |          |    |   |  |  |
| 5               | QPSK       | 1       | 24        | 22.02               | 22.03                  | 22.08                |                     |          |    |   |  |  |
| 5               | QPSK       | 12      | 0         | 21.24               | 21.32                  | 21.21                |                     |          |    |   |  |  |
| 5               | QPSK       | 12      | 7         | 21.18               | 21.15                  | 21.17                | 23                  | 1        |    |   |  |  |
| 5               | QPSK       | 12      | 13        | 21.14               | 21.02                  | 21.06                |                     |          |    |   |  |  |
| 5               | QPSK       | 25      | 0         | 21.18               | 21.19                  | 21.07                |                     |          |    |   |  |  |
| 5               | 16QAM      | 1       | 0         | 21.50               | 21.37                  | 21.39                |                     |          |    |   |  |  |
| 5               | 16QAM      | 1       | 12        | 21.67               | 21.62                  | 21.63                | 23                  | 1        |    |   |  |  |
| 5               | 16QAM      | 1       | 24        | 21.22               | 21.17                  | 21.14                |                     |          |    |   |  |  |
| 5               | 16QAM      | 12      | 0         | 20.21               | 20.20                  | 20.17                |                     |          |    |   |  |  |
| 5               | 16QAM      | 12      | 7         | 20.27               | 20.25                  | 20.26                |                     |          |    |   |  |  |
| 5               | 16QAM      | 12      | 13        | 20.28               | 20.11                  | 20.07                | 22                  | 2        |    |   |  |  |
| 5               | 16QAM      | 25      | 0         | 20.25               | 20.23                  | 20.16                |                     |          |    |   |  |  |
| 5               | 64QAM      | 1       | 0         | 20.41               | 20.27                  | 20.32                |                     |          |    |   |  |  |
| 5               | 64QAM      | 1       | 12        | 20.57               | 20.45                  | 20.46                |                     |          |    |   |  |  |
| 5               | 64QAM      | 1       | 24        | 20.11               | 20.15                  | 20.13                | 22                  | 2        |    |   |  |  |
| 5               | 64QAM      | 12      | 0         | 19.19               | 19.22                  | 19.18                |                     |          |    |   |  |  |
| 5               | 64QAM      | 12      | 7         | 19.31               | 19.21                  | 19.20                |                     |          |    |   |  |  |
| 5               | 64QAM      | 12      | 13        | 19.28               | 19.07                  | 19.05                |                     |          |    |   |  |  |
| 5               | 64QAM      | 25      | 0         | 19.23               | 19.20                  | 19.11                | 21                  | 3        |    |   |  |  |
| 5               | 64QAM      | 25      | 0         | 19.23               | 19.20                  | 19.11                |                     |          |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 3               | QPSK       | 1       | 0         | 22.18               | 22.02                  | 22.04                | 24                  | 0        |    |   |  |  |
| 3               | QPSK       | 1       | 8         | 22.29               | 22.33                  | 22.20                |                     |          |    |   |  |  |
| 3               | QPSK       | 1       | 14        | 22.05               | 22.02                  | 22.04                |                     |          |    |   |  |  |
| 3               | QPSK       | 8       | 0         | 21.24               | 21.32                  | 21.23                |                     |          |    |   |  |  |
| 3               | QPSK       | 8       | 4         | 21.20               | 21.19                  | 21.17                | 23                  | 1        |    |   |  |  |
| 3               | QPSK       | 8       | 7         | 21.12               | 21.07                  | 21.01                |                     |          |    |   |  |  |
| 3               | QPSK       | 15      | 0         | 21.23               | 21.18                  | 21.09                |                     |          |    |   |  |  |
| 3               | 16QAM      | 1       | 0         | 21.47               | 21.38                  | 21.37                |                     |          |    |   |  |  |
| 3               | 16QAM      | 1       | 8         | 21.62               | 21.60                  | 21.59                | 23                  | 1        |    |   |  |  |
| 3               | 16QAM      | 1       | 14        | 21.21               | 21.19                  | 21.08                |                     |          |    |   |  |  |
| 3               | 16QAM      | 8       | 0         | 20.19               | 20.18                  | 20.18                |                     |          |    |   |  |  |
| 3               | 16QAM      | 8       | 4         | 20.26               | 20.26                  | 20.26                |                     |          |    |   |  |  |
| 3               | 16QAM      | 8       | 7         | 20.26               | 20.11                  | 20.09                | 22                  | 2        |    |   |  |  |
| 3               | 16QAM      | 15      | 0         | 20.24               | 20.20                  | 20.14                |                     |          |    |   |  |  |
| 3               | 64QAM      | 1       | 0         | 20.42               | 20.28                  | 20.27                |                     |          |    |   |  |  |
| 3               | 64QAM      | 1       | 8         | 20.55               | 20.46                  | 20.46                |                     |          |    |   |  |  |
| 3               | 64QAM      | 1       | 14        | 20.11               | 20.19                  | 20.17                | 21                  | 3        |    |   |  |  |
| 3               | 64QAM      | 8       | 0         | 19.23               | 19.16                  | 19.16                |                     |          |    |   |  |  |
| 3               | 64QAM      | 8       | 4         | 19.28               | 19.21                  | 19.19                |                     |          |    |   |  |  |
| 3               | 64QAM      | 8       | 7         | 19.25               | 19.09                  | 19.07                | 21                  | 3        |    |   |  |  |
| 3               | 64QAM      | 15      | 0         | 19.29               | 19.16                  | 19.16                |                     |          |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.28               | 22.22                  | 22.24                | 24                  | 0        |    |   |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.33               | 22.20                  | 22.13                |                     |          |    |   |  |  |
| 1.4             | QPSK       | 3       | 0         | 22.34               | 22.36                  | 22.34                |                     |          |    |   |  |  |
| 1.4             | QPSK       | 3       | 3         | 22.36               | 22.32                  | 22.22                |                     |          |    |   |  |  |
| 1.4             | QPSK       | 3       | 3         | 22.34               | 22.26                  | 22.26                | 23                  | 1        |    |   |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.42               | 21.42                  | 21.34                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.88               | 21.72                  | 21.75                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 1       | 3         | 21.86               | 21.51                  | 21.67                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.98               | 21.84                  | 21.26                | 23                  | 1        |    |   |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.52               | 21.33                  | 21.09                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.38               | 21.63                  | 21.13                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.50               | 21.34                  | 21.38                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 6       | 0         | 20.57               | 20.48                  | 20.38                | 22                  | 2        |    |   |  |  |
| 1.4             | 16QAM      | 6       | 0         | 20.57               | 20.48                  | 20.38                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 1       | 3         | 20.33               | 20.54                  | 20.01                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 1       | 3         | 20.83               | 20.57                  | 20.62                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 3       | 0         | 20.64               | 20.51                  | 20.48                | 22                  | 2        |    |   |  |  |
| 1.4             | 64QAM      | 3       | 5         | 20.66               | 20.57                  | 20.48                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 3       | 20        | 20.69               | 20.61                  | 20.17                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 3       | 3         | 20.70               | 20.55                  | 20.37                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 6       | 0         | 19.58               | 19.39                  | 19.22                | 21                  | 3        |    |   |  |  |
| 1.4             | 64QAM      | 6       | 0         | 19.58               | 19.39                  | 19.22                |                     |          |    |   |  |  |

| Band 7          |            |         |           |                          |                             |                           |                           |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Channel         |            |         |           | 20850                    | 21100                       | 21350                     |                           |             |  |
| Frequency (MHz) |            |         |           | 2510                     | 2535                        | 2560                      |                           |             |  |
| 20              | QPSK       | 1       | 0         | 22.43                    | 22.43                       | 22.58                     | 24                        | 0           |  |
| 20              | QPSK       | 1       | 49        | 22.66                    | 22.68                       | 23.05                     |                           |             |  |
| 20              | QPSK       | 1       | 99        | 22.38                    | 22.53                       | 22.94                     |                           |             |  |
| 20              | QPSK       | 50      | 0         | 21.58                    | 21.55                       | 22.03                     |                           |             |  |
| 20              | QPSK       | 50      | 24        | 21.62                    | 21.65                       | 22.02                     | 23                        | 1           |  |
| 20              | QPSK       | 50      | 50        | 21.66                    | 21.51                       | 21.98                     |                           |             |  |
| 20              | QPSK       | 100     | 0         | 21.62                    | 21.55                       | 21.97                     |                           |             |  |
| 20              | 16QAM      | 1       | 0         | 21.72                    | 21.78                       | 21.91                     |                           |             |  |
| 20              | 16QAM      | 1       | 49        | 21.99                    | 22.00                       | 22.32                     | 23                        | 1           |  |
| 20              | 16QAM      | 1       | 99        | 21.78                    | 21.83                       | 22.23                     |                           |             |  |
| 20              | 16QAM      | 50      | 0         | 20.58                    | 20.55                       | 20.87                     |                           |             |  |
| 20              | 16QAM      | 50      | 24        | 20.59                    | 20.63                       | 20.96                     |                           |             |  |
| 20              | 16QAM      | 50      | 50        | 20.68                    | 20.51                       | 21.04                     | 22                        | 2           |  |
| 20              | 16QAM      | 100     | 0         | 20.60                    | 20.55                       | 20.98                     |                           |             |  |
| 20              | 64QAM      | 1       | 0         | 20.64                    | 20.59                       | 20.84                     |                           |             |  |
| 20              | 64QAM      | 1       | 49        | 20.88                    | 20.82                       | 21.14                     |                           |             |  |
| 20              | 64QAM      | 1       | 99        | 20.61                    | 20.69                       | 21.15                     | 22                        | 2           |  |
| 20              | 64QAM      | 50      | 0         | 19.56                    | 19.52                       | 19.84                     |                           |             |  |
| 20              | 64QAM      | 50      | 24        | 19.59                    | 19.61                       | 19.97                     |                           |             |  |
| 20              | 64QAM      | 50      | 50        | 19.69                    | 19.49                       | 20.04                     |                           |             |  |
| 20              | 64QAM      | 100     | 0         | 19.62                    | 19.52                       | 19.97                     | 21                        | 3           |  |
| Channel         |            |         |           | 20825                    | 21100                       | 21375                     |                           |             |  |
| Frequency (MHz) |            |         |           | 2507.5                   | 2535                        | 2562.5                    |                           |             |  |
| 15              | QPSK       | 1       | 0         | 22.36                    | 22.40                       | 22.52                     | 24                        | 0           |  |
| 15              | QPSK       | 1       | 37        | 22.59                    | 22.59                       | 22.99                     |                           |             |  |
| 15              | QPSK       | 1       | 74        | 22.35                    | 22.44                       | 22.85                     |                           |             |  |
| 15              | QPSK       | 36      | 0         | 21.55                    | 21.45                       | 21.99                     |                           |             |  |
| 15              | QPSK       | 36      | 20        | 21.57                    | 21.57                       | 21.93                     | 23                        | 1           |  |
| 15              | QPSK       | 36      | 39        | 21.59                    | 21.45                       | 21.90                     |                           |             |  |
| 15              | QPSK       | 75      | 0         | 21.56                    | 21.48                       | 21.91                     |                           |             |  |
| 15              | 16QAM      | 1       | 0         | 21.69                    | 21.68                       | 21.81                     |                           |             |  |
| 15              | 16QAM      | 1       | 37        | 21.69                    | 21.96                       | 22.23                     | 23                        | 1           |  |
| 15              | 16QAM      | 1       | 74        | 21.73                    | 21.74                       | 22.14                     |                           |             |  |
| 15              | 16QAM      | 36      | 0         | 20.50                    | 20.45                       | 20.77                     |                           |             |  |
| 15              | 16QAM      | 36      | 20        | 20.55                    | 20.55                       | 20.91                     |                           |             |  |
| 15              | 16QAM      | 36      | 39        | 20.62                    | 20.47                       | 20.94                     | 22                        | 2           |  |
| 15              | 16QAM      | 75      | 0         | 20.55                    | 20.46                       | 20.88                     |                           |             |  |
| 15              | 64QAM      | 1       | 0         | 20.56                    | 20.50                       | 20.81                     |                           |             |  |
| 15              | 64QAM      | 1       | 37        | 20.80                    | 20.75                       | 21.04                     |                           |             |  |
| 15              | 64QAM      | 1       | 74        | 20.58                    | 20.65                       | 21.11                     | 22                        | 2           |  |
| 15              | 64QAM      | 36      | 0         | 19.50                    | 19.42                       | 19.76                     |                           |             |  |
| 15              | 64QAM      | 36      | 20        | 19.52                    | 19.52                       | 19.93                     |                           |             |  |
| 15              | 64QAM      | 36      | 39        | 19.61                    | 19.42                       | 20.00                     |                           |             |  |
| 15              | 64QAM      | 75      | 0         | 19.57                    | 19.49                       | 19.95                     | 21                        | 3           |  |
| Channel         |            |         |           | 20800                    | 21100                       | 21400                     |                           |             |  |
| Frequency (MHz) |            |         |           | 2505                     | 2535                        | 2565                      |                           |             |  |
| 10              | QPSK       | 1       | 0         | 22.38                    | 22.34                       | 22.52                     | 24                        | 0           |  |
| 10              | QPSK       | 1       | 25        | 22.60                    | 22.59                       | 22.98                     |                           |             |  |
| 10              | QPSK       | 1       | 49        | 22.29                    | 22.49                       | 22.84                     |                           |             |  |
| 10              | QPSK       | 25      | 0         | 21.50                    | 21.50                       | 21.99                     |                           |             |  |
| 10              | QPSK       | 25      | 12        | 21.56                    | 21.56                       | 21.99                     | 23                        | 1           |  |
| 10              | QPSK       | 25      | 25        | 21.59                    | 21.42                       | 21.90                     |                           |             |  |
| 10              | QPSK       | 50      | 0         | 21.54                    | 21.45                       | 21.88                     |                           |             |  |
| 10              | 16QAM      | 1       | 0         | 21.65                    | 21.75                       | 21.81                     |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 21.91                    | 21.90                       | 22.25                     | 23                        | 1           |  |
| 10              | 16QAM      | 1       | 49        | 21.68                    | 21.78                       | 22.13                     |                           |             |  |
| 10              | 16QAM      | 25      | 0         | 20.48                    | 20.47                       | 20.84                     |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 20.56                    | 20.54                       | 20.96                     |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 20.64                    | 20.43                       | 20.94                     | 22                        | 2           |  |
| 10              | 16QAM      | 50      | 0         | 20.55                    | 20.47                       | 20.95                     |                           |             |  |
| 10              | 64QAM      | 1       | 0         | 20.54                    | 20.52                       | 20.74                     |                           |             |  |
| 10              | 64QAM      | 1       | 25        | 20.84                    | 20.73                       | 21.04                     |                           |             |  |
| 10              | 64QAM      | 1       | 49        | 20.56                    | 20.63                       | 21.06                     | 22                        | 2           |  |
| 10              | 64QAM      | 25      | 0         | 19.47                    | 19.46                       | 19.76                     |                           |             |  |
| 10              | 64QAM      | 25      | 12        | 19.50                    | 19.53                       | 19.92                     |                           |             |  |
| 10              | 64QAM      | 25      | 25        | 19.66                    | 19.41                       | 20.00                     |                           |             |  |
| 10              | 64QAM      | 50      | 0         | 19.54                    | 19.49                       | 19.94                     | 21                        | 3           |  |
| Channel         |            |         |           | 20775                    | 21100                       | 21425                     |                           |             |  |
| Frequency (MHz) |            |         |           | 2502.5                   | 2535                        | 2567.5                    |                           |             |  |
| 5               | QPSK       | 1       | 0         | 22.37                    | 22.40                       | 22.55                     | 24                        | 0           |  |
| 5               | QPSK       | 1       | 12        | 22.60                    | 22.62                       | 23.02                     |                           |             |  |
| 5               | QPSK       | 1       | 24        | 22.28                    | 22.44                       | 22.91                     |                           |             |  |
| 5               | QPSK       | 12      | 0         | 21.50                    | 21.46                       | 21.96                     |                           |             |  |
| 5               | QPSK       | 12      | 7         | 21.58                    | 21.59                       | 21.96                     | 23                        | 1           |  |
| 5               | QPSK       | 12      | 13        | 21.63                    | 21.43                       | 21.86                     |                           |             |  |
| 5               | QPSK       | 25      | 0         | 21.57                    | 21.48                       | 21.90                     |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 21.69                    | 21.69                       | 21.85                     |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 21.94                    | 21.90                       | 22.22                     | 23                        | 1           |  |
| 5               | 16QAM      | 1       | 24        | 21.74                    | 21.74                       | 22.17                     |                           |             |  |
| 5               | 16QAM      | 12      | 0         | 20.54                    | 20.51                       | 20.79                     |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 20.53                    | 20.54                       | 20.92                     |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 20.65                    | 20.43                       | 20.94                     | 22                        | 2           |  |
| 5               | 16QAM      | 25      | 0         | 20.50                    | 20.46                       | 20.92                     |                           |             |  |
| 5               | 64QAM      | 1       | 0         | 20.59                    | 20.53                       | 20.81                     |                           |             |  |
| 5               | 64QAM      | 1       | 12        | 20.79                    | 20.75                       | 21.06                     |                           |             |  |
| 5               | 64QAM      | 1       | 24        | 20.58                    | 20.60                       | 21.12                     | 22                        | 2           |  |
| 5               | 64QAM      | 12      | 0         | 19.53                    | 19.45                       | 19.81                     |                           |             |  |
| 5               | 64QAM      | 12      | 7         | 19.52                    | 19.53                       | 19.89                     |                           |             |  |
| 5               | 64QAM      | 12      | 13        | 19.63                    | 19.40                       | 19.97                     |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 19.55                    | 19.43                       | 19.90                     | 21                        | 3           |  |

| Band 13         |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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         |            |         |           | 23230                 |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 0         |                       | 22.83                    |                        | 23                  | 1        |  |
| 10              | QPSK       | 1       | 25        |                       | 22.84                    |                        |                     |          |  |
| 10              | QPSK       | 1       | 49        |                       | 22.75                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 0         |                       | 21.80                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 12        |                       | 21.75                    |                        | 23                  | 1        |  |
| 10              | QPSK       | 25      | 25        |                       | 21.71                    |                        |                     |          |  |
| 10              | QPSK       | 50      | 0         |                       | 21.76                    |                        |                     |          |  |
| 10              | 16QAM      | 1       | 0         |                       | 21.86                    |                        |                     |          |  |
| 10              | 16QAM      | 1       | 25        |                       | 22.07                    |                        | 23                  | 1        |  |
| 10              | 16QAM      | 1       | 49        |                       | 22.04                    |                        |                     |          |  |
| 10              | 16QAM      | 25      | 0         |                       | 20.76                    |                        |                     |          |  |
| 10              | 16QAM      | 25      | 12        |                       | 20.85                    |                        | 22                  | 2        |  |
| 10              | 16QAM      | 25      | 25        |                       | 20.86                    |                        |                     |          |  |
| 10              | 16QAM      | 50      | 0         |                       | 20.81                    |                        |                     |          |  |
| 10              | 64QAM      | 1       | 0         |                       | 20.85                    |                        |                     |          |  |
| 10              | 64QAM      | 1       | 25        |                       | 21.05                    |                        | 22                  | 2        |  |
| 10              | 64QAM      | 1       | 49        |                       | 20.98                    |                        |                     |          |  |
| 10              | 64QAM      | 25      | 0         |                       | 19.75                    |                        |                     |          |  |
| 10              | 64QAM      | 25      | 12        |                       | 19.87                    |                        | 21                  | 3        |  |
| 10              | 64QAM      | 25      | 25        |                       | 19.87                    |                        |                     |          |  |
| 10              | 64QAM      | 50      | 0         |                       | 19.81                    |                        |                     |          |  |
| Channel         |            |         |           | 23205                 | 23230                    | 23255                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |                     |          |  |
| 5               | QPSK       | 1       | 0         | 22.53                 | 22.53                    | 22.59                  | 24                  | 0        |  |
| 5               | QPSK       | 1       | 12        | 22.75                 | 22.76                    | 22.81                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 22.66                 | 22.66                    | 22.65                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 21.77                 | 21.75                    | 21.75                  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 21.68                 | 21.65                    | 21.67                  | 23                  | 1        |  |
| 5               | QPSK       | 12      | 13        | 21.62                 | 21.61                    | 21.61                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 21.66                 | 21.70                    | 21.72                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 21.81                 | 21.76                    | 21.83                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 22.04                 | 21.98                    | 22.02                  | 23                  | 1        |  |
| 5               | 16QAM      | 1       | 24        | 21.96                 | 21.99                    | 21.99                  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 20.66                 | 20.68                    | 20.69                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 20.76                 | 20.75                    | 20.76                  | 22                  | 2        |  |
| 5               | 16QAM      | 12      | 13        | 20.81                 | 20.83                    | 20.78                  |                     |          |  |
| 5               | 16QAM      | 25      | 0         | 20.71                 | 20.74                    | 20.74                  |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 20.77                 | 20.79                    | 20.79                  |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 21.02                 | 20.98                    | 21.02                  | 22                  | 2        |  |
| 5               | 64QAM      | 1       | 24        | 20.92                 | 20.91                    | 20.90                  |                     |          |  |
| 5               | 64QAM      | 12      | 0         | 19.72                 | 19.70                    | 19.66                  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 19.77                 | 19.84                    | 19.78                  | 21                  | 3        |  |
| 5               | 64QAM      | 12      | 13        | 19.82                 | 19.77                    | 19.79                  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 19.74                 | 19.71                    | 19.76                  |                     |          |  |

| Band 26         |            |         |           |                          |                          |                           |                           |             |             |
|-----------------|------------|---------|-----------|--------------------------|--------------------------|---------------------------|---------------------------|-------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Mid<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |             |
| Channel         |            |         |           | 26765                    | 26865                    | 26965                     |                           |             |             |
| Frequency (MHz) |            |         |           | 821.5                    | 831.5                    | 841.5                     |                           |             |             |
| 15              | QPSK       | 1       | 0         | 22.40                    | 22.27                    | 22.26                     | 24                        | 0           |             |
| 15              | QPSK       | 1       | 37        | 22.53                    | 22.40                    | 22.47                     |                           |             |             |
| 15              | QPSK       | 1       | 74        | 22.27                    | 22.23                    | 22.31                     |                           |             |             |
| 15              | QPSK       | 36      | 0         | 21.48                    | 21.33                    | 21.39                     |                           |             |             |
| 15              | QPSK       | 36      | 20        | 21.46                    | 21.33                    | 21.41                     | 23                        | 1           |             |
| 15              | QPSK       | 36      | 39        | 21.43                    | 21.26                    | 21.36                     |                           |             |             |
| 15              | QPSK       | 75      | 0         | 21.46                    | 21.27                    | 21.34                     |                           |             |             |
| 15              | 16QAM      | 1       | 0         | 21.66                    | 21.50                    | 21.54                     |                           |             |             |
| 15              | 16QAM      | 1       | 37        | 21.93                    | 21.65                    | 21.76                     | 23                        | 1           |             |
| 15              | 16QAM      | 1       | 74        | 21.58                    | 21.60                    | 21.64                     |                           |             |             |
| 15              | 16QAM      | 36      | 0         | 20.54                    | 20.40                    | 20.46                     |                           |             |             |
| 15              | 16QAM      | 36      | 20        | 20.50                    | 20.39                    | 20.45                     |                           |             |             |
| 15              | 16QAM      | 36      | 39        | 20.45                    | 20.30                    | 20.34                     | 22                        | 2           |             |
| 15              | 16QAM      | 75      | 0         | 20.54                    | 20.32                    | 20.42                     |                           |             |             |
| 15              | 64QAM      | 1       | 0         | 20.70                    | 20.43                    | 20.54                     |                           |             |             |
| 15              | 64QAM      | 1       | 37        | 20.83                    | 20.69                    | 20.82                     |                           |             |             |
| 15              | 64QAM      | 1       | 74        | 20.44                    | 20.50                    | 20.65                     | 21                        | 3           |             |
| 15              | 64QAM      | 36      | 0         | 19.53                    | 19.39                    | 19.48                     |                           |             |             |
| 15              | 64QAM      | 36      | 20        | 19.50                    | 19.42                    | 19.48                     |                           |             |             |
| 15              | 64QAM      | 36      | 39        | 19.46                    | 19.33                    | 19.34                     |                           |             |             |
| 15              | 64QAM      | 75      | 0         | 19.51                    | 19.33                    | 19.40                     |                           |             |             |
| Channel         |            |         |           | 26740                    | 26865                    | 26990                     | Tune-up<br>limit<br>(dbm) |             | MPR<br>(db) |
| Frequency (MHz) |            |         |           | 819                      | 831.5                    | 844                       |                           |             |             |
| 10              | QPSK       | 1       | 0         | 22.37                    | 22.24                    | 22.16                     | 24                        | 0           |             |
| 10              | QPSK       | 1       | 25        | 22.50                    | 22.33                    | 22.40                     |                           |             |             |
| 10              | QPSK       | 1       | 49        | 22.22                    | 22.13                    | 22.22                     |                           |             |             |
| 10              | QPSK       | 25      | 0         | 21.40                    | 21.30                    | 21.29                     |                           |             |             |
| 10              | QPSK       | 25      | 12        | 21.43                    | 21.27                    | 21.33                     | 23                        | 1           |             |
| 10              | QPSK       | 25      | 25        | 21.33                    | 21.22                    | 21.28                     |                           |             |             |
| 10              | QPSK       | 50      | 0         | 21.39                    | 21.23                    | 21.27                     |                           |             |             |
| 10              | 16QAM      | 1       | 0         | 21.56                    | 21.42                    | 21.44                     |                           |             |             |
| 10              | 16QAM      | 1       | 25        | 21.67                    | 21.57                    | 21.71                     | 23                        | 1           |             |
| 10              | 16QAM      | 1       | 49        | 21.54                    | 21.54                    | 21.57                     |                           |             |             |
| 10              | 16QAM      | 25      | 0         | 20.47                    | 20.31                    | 20.43                     |                           |             |             |
| 10              | 16QAM      | 25      | 12        | 20.41                    | 20.31                    | 20.38                     |                           |             |             |
| 10              | 16QAM      | 25      | 25        | 20.37                    | 20.23                    | 20.26                     | 22                        | 2           |             |
| 10              | 16QAM      | 50      | 0         | 20.46                    | 20.24                    | 20.38                     |                           |             |             |
| 10              | 64QAM      | 1       | 0         | 20.63                    | 20.37                    | 20.45                     |                           |             |             |
| 10              | 64QAM      | 1       | 25        | 20.75                    | 20.60                    | 20.77                     |                           |             |             |
| 10              | 64QAM      | 1       | 49        | 20.37                    | 20.40                    | 20.57                     | 22                        | 2           |             |
| 10              | 64QAM      | 25      | 0         | 19.47                    | 19.30                    | 19.44                     |                           |             |             |
| 10              | 64QAM      | 25      | 12        | 19.40                    | 19.32                    | 19.40                     |                           |             |             |
| 10              | 64QAM      | 25      | 25        | 19.42                    | 19.30                    | 19.28                     |                           |             |             |
| 10              | 64QAM      | 50      | 0         | 19.43                    | 19.24                    | 19.35                     | 21                        | 3           |             |
| Channel         |            |         |           | 26715                    | 26865                    | 27015                     |                           |             |             |
| Frequency (MHz) |            |         |           | 816.5                    | 831.5                    | 846.5                     |                           |             |             |
| 5               | QPSK       | 1       | 0         | 22.30                    | 22.24                    | 22.21                     | 24                        | 0           |             |
| 5               | QPSK       | 1       | 12        | 22.47                    | 22.34                    | 22.44                     |                           |             |             |
| 5               | QPSK       | 1       | 24        | 22.24                    | 22.16                    | 22.25                     |                           |             |             |
| 5               | QPSK       | 12      | 0         | 21.45                    | 21.27                    | 21.36                     |                           |             |             |
| 5               | QPSK       | 12      | 7         | 21.40                    | 21.26                    | 21.35                     | 23                        | 1           |             |
| 5               | QPSK       | 12      | 13        | 21.33                    | 21.19                    | 21.23                     |                           |             |             |
| 5               | QPSK       | 25      | 0         | 21.38                    | 21.17                    | 21.25                     |                           |             |             |
| 5               | 16QAM      | 1       | 0         | 21.58                    | 21.40                    | 21.48                     |                           |             |             |
| 5               | 16QAM      | 1       | 12        | 21.84                    | 21.55                    | 21.72                     | 23                        | 1           |             |
| 5               | 16QAM      | 1       | 24        | 21.55                    | 21.57                    | 21.60                     |                           |             |             |
| 5               | 16QAM      | 12      | 0         | 20.50                    | 20.30                    | 20.42                     |                           |             |             |
| 5               | 16QAM      | 12      | 7         | 20.46                    | 20.30                    | 20.37                     |                           |             |             |
| 5               | 16QAM      | 12      | 13        | 20.41                    | 20.27                    | 20.35                     | 22                        | 2           |             |
| 5               | 16QAM      | 25      | 0         | 20.51                    | 20.26                    | 20.37                     |                           |             |             |
| 5               | 64QAM      | 1       | 0         | 20.66                    | 20.39                    | 20.51                     |                           |             |             |
| 5               | 64QAM      | 1       | 12        | 20.74                    | 20.64                    | 20.73                     |                           |             |             |
| 5               | 64QAM      | 1       | 24        | 20.35                    | 20.43                    | 20.56                     | 22                        | 2           |             |
| 5               | 64QAM      | 12      | 0         | 19.46                    | 19.32                    | 19.41                     |                           |             |             |
| 5               | 64QAM      | 12      | 7         | 19.44                    | 19.35                    | 19.45                     |                           |             |             |
| 5               | 64QAM      | 12      | 13        | 19.42                    | 19.29                    | 19.28                     |                           |             |             |
| 5               | 64QAM      | 25      | 0         | 19.42                    | 19.23                    | 19.34                     | 21                        | 3           |             |
| Channel         |            |         |           | 26705                    | 26865                    | 27025                     |                           |             |             |
| Frequency (MHz) |            |         |           | 815.5                    | 831.5                    | 847.5                     |                           |             |             |
| 3               | QPSK       | 1       | 0         | 22.34                    | 22.24                    | 22.16                     | 24                        | 0           |             |
| 3               | QPSK       | 1       | 5         | 22.49                    | 22.30                    | 22.40                     |                           |             |             |
| 3               | QPSK       | 1       | 14        | 22.20                    | 22.14                    | 22.22                     |                           |             |             |
| 3               | QPSK       | 8       | 0         | 21.42                    | 21.27                    | 21.32                     |                           |             |             |
| 3               | QPSK       | 8       | 4         | 21.43                    | 21.23                    | 21.35                     | 23                        | 1           |             |
| 3               | QPSK       | 8       | 7         | 21.37                    | 21.20                    | 21.21                     |                           |             |             |
| 3               | QPSK       | 15      | 0         | 21.43                    | 21.17                    | 21.31                     |                           |             |             |
| 3               | 16QAM      | 1       | 0         | 21.61                    | 21.47                    | 21.48                     |                           |             |             |
| 3               | 16QAM      | 1       | 8         | 21.83                    | 21.55                    | 21.67                     | 23                        | 1           |             |
| 3               | 16QAM      | 1       | 14        | 21.53                    | 21.54                    | 21.61                     |                           |             |             |
| 3               | 16QAM      | 8       | 0         | 20.47                    | 20.32                    | 20.43                     |                           |             |             |
| 3               | 16QAM      | 8       | 4         | 20.45                    | 20.29                    | 20.39                     |                           |             |             |
| 3               | 16QAM      | 8       | 7         | 20.42                    | 20.25                    | 20.26                     | 22                        | 2           |             |
| 3               | 16QAM      | 15      | 0         | 20.47                    | 20.24                    | 20.39                     |                           |             |             |
| 3               | 64QAM      | 1       | 0         | 20.62                    | 20.34                    | 20.49                     |                           |             |             |
| 3               | 64QAM      | 1       | 8         | 20.76                    | 20.61                    | 20.79                     |                           |             |             |
| 3               | 64QAM      | 1       | 14        | 20.36                    | 20.41                    | 20.56                     | 22                        | 2           |             |
| 3               | 64QAM      | 8       | 0         | 19.45                    | 19.29                    | 19.43                     |                           |             |             |
| 3               | 64QAM      | 8       | 4         | 19.47                    | 19.32                    | 19.38                     |                           |             |             |
| 3               | 64QAM      | 8       | 7         | 19.38                    | 19.29                    | 19.25                     |                           |             |             |
| 3               | 64QAM      | 15      | 0         | 19.47                    | 19.25                    | 19.35                     | 21                        | 3           |             |
| Channel         |            |         |           | 26997                    | 26865                    | 27033                     |                           |             |             |
| Frequency (MHz) |            |         |           | 814.7                    | 831.5                    | 848.3                     |                           |             |             |
| 1.4             | QPSK       | 1       | 0         | 22.31                    | 22.20                    | 22.22                     | 24                        | 0           |             |
| 1.4             | QPSK       | 1       | 3         | 22.45                    | 22.32                    | 22.37                     |                           |             |             |
| 1.4             | QPSK       | 1       | 5         | 22.18                    | 22.15                    | 22.27                     |                           |             |             |
| 1.4             | QPSK       | 3       | 0         | 22.27                    | 22.15                    | 22.13                     |                           |             |             |
| 1.4             | QPSK       | 3       | 1         | 22.36                    | 22.27                    | 22.33                     | 23                        | 1           |             |
| 1.4             | QPSK       | 3       | 3         | 22.09                    | 22.12                    | 22.19                     |                           |             |             |
| 1.4             | QPSK       | 6       | 0         | 21.40                    | 21.20                    | 21.28                     |                           |             |             |
| 1.4             | 16QAM      | 1       | 0         | 21.61                    | 21.47                    | 21.48                     |                           |             |             |
| 1.4             | 16QAM      | 1       | 3         | 21.90                    | 21.55                    | 21.70                     | 23                        | 1           |             |
| 1.4             | 16QAM      | 1       | 5         | 21.54                    | 21.50                    | 21.59                     |                           |             |             |
| 1.4             | 16QAM      | 3       | 0         | 21.64                    | 21.46                    | 21.47                     |                           |             |             |
| 1.4             | 16QAM      | 3       | 1         | 21.80                    | 21.54                    | 21.74                     |                           |             |             |
| 1.4             | 16QAM      | 3       | 3         | 21.58                    | 21.52                    | 21.59                     | 22                        | 2           |             |
| 1.4             | 16QAM      | 6       | 0         | 20.51                    | 20.25                    | 20.37                     |                           |             |             |
| 1.4             | 64QAM      | 1       | 0         | 20.65                    | 20.39                    | 20.44                     |                           |             |             |
| 1.4             | 64QAM      | 1       | 3         | 20.80                    | 20.61                    | 20.75                     |                           |             |             |
| 1.4             | 64QAM      | 1       | 5         | 20.39                    | 20.43                    | 20.60                     | 22                        | 2           |             |
| 1.4             | 64QAM      | 3       | 0         | 20.62                    | 20.32                    | 20.39                     |                           |             |             |
| 1.4             | 64QAM      | 3       | 1         | 20.81                    | 20.63                    | 20.80                     |                           |             |             |
| 1.4             | 64QAM      | 3       | 3         | 20.40                    | 20.47                    | 20.59                     |                           |             |             |
| 1.4             | 64QAM      | 6       | 0         | 19.44                    | 19.26                    | 19.33                     | 21                        | 3           | 3           |

| Band 66         |            |         |           |                          |                           |                           |                           |             |  |                           |             |  |
|-----------------|------------|---------|-----------|--------------------------|---------------------------|---------------------------|---------------------------|-------------|--|---------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |                           |             |  |
| Channel         |            |         |           | 132072                   | 132322                    | 132572                    |                           |             |  |                           |             |  |
| Frequency (MHz) |            |         |           | 1720                     | 1745                      | 1770                      |                           |             |  |                           |             |  |
| 20              | QPSK       | 1       | 0         | 22.54                    | 22.46                     | 22.34                     | 24                        | 0           |  |                           |             |  |
| 20              | QPSK       | 1       | 49        | 22.61                    | 22.65                     | 22.45                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 1       | 99        | 22.32                    | 22.21                     | 22.00                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 50      | 0         | 21.59                    | 21.64                     | 21.42                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 50      | 24        | 21.59                    | 21.62                     | 21.40                     | 23                        | 1           |  |                           |             |  |
| 20              | QPSK       | 50      | 50        | 21.52                    | 21.48                     | 21.18                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 100     | 0         | 21.60                    | 21.61                     | 21.26                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 1       | 0         | 21.90                    | 21.85                     | 21.69                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 1       | 49        | 22.03                    | 22.02                     | 21.81                     | 23                        | 1           |  |                           |             |  |
| 20              | 16QAM      | 1       | 99        | 21.68                    | 21.57                     | 21.35                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 50      | 0         | 20.66                    | 20.69                     | 20.48                     | 22                        | 2           |  |                           |             |  |
| 20              | 16QAM      | 50      | 24        | 20.65                    | 20.67                     | 20.46                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 50      | 50        | 20.61                    | 20.61                     | 20.25                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 100     | 0         | 20.84                    | 20.84                     | 20.35                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 1       | 0         | 20.75                    | 20.75                     | 20.55                     | 22                        | 2           |  |                           |             |  |
| 20              | 64QAM      | 1       | 49        | 20.90                    | 20.95                     | 20.67                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 1       | 99        | 20.54                    | 20.51                     | 20.22                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 50      | 0         | 19.68                    | 19.68                     | 19.46                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 50      | 24        | 19.65                    | 19.67                     | 19.46                     | 21                        | 3           |  |                           |             |  |
| 20              | 64QAM      | 50      | 50        | 19.61                    | 19.63                     | 19.25                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 100     | 0         | 19.64                    | 19.59                     | 19.36                     |                           |             |  |                           |             |  |
| Channel         |            |         |           | 132047                   | 132322                    | 132597                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                      | 1772.5                    |                           |             |  |                           |             |  |
| 15              | QPSK       | 1       | 0         | 22.44                    | 22.43                     | 22.31                     | 24                        | 0           |  |                           |             |  |
| 15              | QPSK       | 1       | 37        | 22.52                    | 22.61                     | 22.35                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 1       | 74        | 22.29                    | 22.16                     | 22.04                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 36      | 0         | 21.51                    | 21.54                     | 21.39                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 36      | 20        | 21.50                    | 21.52                     | 21.32                     | 23                        | 1           |  |                           |             |  |
| 15              | QPSK       | 36      | 39        | 21.48                    | 21.39                     | 21.08                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 75      | 0         | 21.55                    | 21.56                     | 21.22                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 1       | 0         | 21.87                    | 21.78                     | 21.60                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 1       | 37        | 21.97                    | 21.99                     | 21.76                     | 23                        | 1           |  |                           |             |  |
| 15              | 16QAM      | 1       | 74        | 21.64                    | 21.53                     | 21.27                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 36      | 0         | 20.60                    | 20.63                     | 20.38                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 36      | 20        | 20.60                    | 20.61                     | 20.42                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 36      | 39        | 20.57                    | 20.50                     | 20.17                     | 22                        | 2           |  |                           |             |  |
| 15              | 16QAM      | 75      | 0         | 20.55                    | 20.56                     | 20.31                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 0         | 20.69                    | 20.69                     | 20.46                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 37        | 20.84                    | 20.84                     | 20.54                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 74        | 20.47                    | 20.47                     | 20.18                     | 22                        | 2           |  |                           |             |  |
| 15              | 64QAM      | 36      | 0         | 19.63                    | 19.56                     | 19.36                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 36      | 20        | 19.59                    | 19.64                     | 19.40                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 36      | 39        | 19.52                    | 19.45                     | 19.22                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 75      | 0         | 19.54                    | 19.52                     | 19.27                     | 21                        | 3           |  |                           |             |  |
| Channel         |            |         |           | 131922                   | 132222                    | 132522                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1715.5                   | 1745                      | 1775                      |                           |             |  |                           |             |  |
| 10              | QPSK       | 1       | 0         | 22.46                    | 22.40                     | 22.29                     |                           |             |  | 24                        | 0           |  |
| 10              | QPSK       | 1       | 25        | 22.63                    | 22.56                     | 22.41                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 1       | 49        | 22.22                    | 22.17                     | 22.01                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 25      | 0         | 21.51                    | 21.60                     | 21.38                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 25      | 12        | 21.55                    | 21.54                     | 21.34                     | 23                        | 1           |  |                           |             |  |
| 10              | QPSK       | 25      | 25        | 21.49                    | 21.43                     | 21.10                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 50      | 0         | 21.51                    | 21.52                     | 21.16                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 1       | 0         | 21.84                    | 21.75                     | 21.65                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 21.97                    | 21.98                     | 21.74                     | 23                        | 1           |  |                           |             |  |
| 10              | 16QAM      | 1       | 49        | 21.63                    | 21.49                     | 21.25                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 0         | 20.59                    | 20.60                     | 20.43                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 20.60                    | 20.62                     | 20.42                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 20.51                    | 20.45                     | 20.21                     | 22                        | 2           |  |                           |             |  |
| 10              | 16QAM      | 50      | 0         | 20.56                    | 20.55                     | 20.30                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 0         | 20.72                    | 20.73                     | 20.49                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 25        | 20.82                    | 20.92                     | 20.64                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 49        | 20.46                    | 20.42                     | 20.13                     | 22                        | 2           |  |                           |             |  |
| 10              | 64QAM      | 25      | 0         | 19.60                    | 19.56                     | 19.37                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 25      | 12        | 19.57                    | 19.60                     | 19.42                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 25      | 25        | 19.51                    | 19.43                     | 19.18                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 50      | 0         | 19.57                    | 19.51                     | 19.26                     | 21                        | 3           |  |                           |             |  |
| Channel         |            |         |           | 131997                   | 132222                    | 132647                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                      | 1777.5                    |                           |             |  |                           |             |  |
| 5               | QPSK       | 1       | 0         | 22.46                    | 22.40                     | 22.29                     |                           |             |  | 24                        | 0           |  |
| 5               | QPSK       | 1       | 12        | 22.58                    | 22.61                     | 22.42                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 1       | 24        | 22.27                    | 22.14                     | 22.05                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 12      | 0         | 21.54                    | 21.56                     | 21.32                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 12      | 7         | 21.51                    | 21.57                     | 21.33                     | 23                        | 1           |  |                           |             |  |
| 5               | QPSK       | 12      | 13        | 21.49                    | 21.44                     | 21.21                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 25      | 0         | 21.55                    | 21.57                     | 21.22                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 21.81                    | 21.71                     | 21.60                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 21.93                    | 21.94                     | 21.78                     | 23                        | 1           |  |                           |             |  |
| 5               | 16QAM      | 1       | 24        | 21.62                    | 21.49                     | 21.30                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 20.59                    | 20.61                     | 20.38                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 20.58                    | 20.46                     | 20.19                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 25      | 0         | 20.60                    | 20.60                     | 20.27                     | 22                        | 2           |  |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 20.67                    | 20.74                     | 20.46                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 1       | 12        | 20.83                    | 20.87                     | 20.58                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 1       | 24        | 20.50                    | 20.41                     | 20.15                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 12      | 0         | 19.60                    | 19.59                     | 19.42                     | 22                        | 2           |  |                           |             |  |
| 5               | 64QAM      | 12      | 7         | 19.60                    | 19.59                     | 19.45                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 12      | 13        | 19.58                    | 19.49                     | 19.15                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 19.59                    | 19.50                     | 19.27                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 19.59                    | 19.50                     | 19.27                     | 21                        | 3           |  |                           |             |  |
| Channel         |            |         |           | 131987                   | 132222                    | 132657                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1711.5                   | 1745                      | 1777.5                    |                           |             |  |                           |             |  |
| 3               | QPSK       | 1       | 0         | 22.46                    | 22.43                     | 22.30                     |                           |             |  | 24                        | 0           |  |
| 3               | QPSK       | 1       | 8         | 22.57                    | 22.61                     | 22.25                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 1       | 14        | 22.28                    | 22.13                     | 22.05                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 8       | 0         | 21.49                    | 21.54                     | 21.33                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 8       | 7         | 21.52                    | 21.51                     | 21.32                     | 23                        | 1           |  |                           |             |  |
| 3               | QPSK       | 8       | 7         | 21.42                    | 21.40                     | 21.10                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 15      | 0         | 21.50                    | 21.56                     | 21.17                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 1       | 0         | 21.85                    | 21.82                     | 21.66                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 1       | 8         | 21.99                    | 21.96                     | 21.72                     | 23                        | 1           |  |                           |             |  |
| 3               | 16QAM      | 1       | 14        | 21.62                    | 21.51                     | 21.31                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 8       | 0         | 20.60                    | 20.62                     | 20.43                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 20.59                    | 20.59                     | 20.36                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 20.53                    | 20.50                     | 20.16                     | 22                        | 2           |  |                           |             |  |
| 3               | 16QAM      | 15      | 0         | 20.54                    | 20.60                     | 20.31                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 0         | 20.72                    | 20.72                     | 20.46                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 8         | 20.85                    | 20.90                     | 20.59                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 14        | 20.49                    | 20.49                     | 20.12                     | 22                        | 2           |  |                           |             |  |
| 3               | 64QAM      | 8       | 0         | 19.65                    | 19.56                     | 19.36                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 8       | 4         | 19.57                    | 19.63                     | 19.39                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 8       | 7         | 19.55                    | 19.44                     | 19.18                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 15      | 0         | 19.54                    | 19.51                     | 19.26                     | 21                        | 3           |  |                           |             |  |
| Channel         |            |         |           | 131979                   | 132222                    | 132666                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1710.5                   | 1745                      | 1779.5                    |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 1       | 0         | 22.49                    | 22.40                     | 22.30                     |                           |             |  | 24                        | 0           |  |
| 1.4             | QPSK       | 1       | 3         | 22.56                    | 22.56                     | 22.38                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 1       | 5         | 22.24                    | 22.14                     | 22.01                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 3       | 0         | 22.42                    | 22.31                     | 22.24                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 3       | 1         | 22.50                    | 22.48                     | 22.28                     | 23                        | 1           |  |                           |             |  |
| 1.4             | QPSK       | 3       | 3         | 22.14                    | 22.08                     | 22.05                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 6       | 0         | 21.51                    | 21.51                     | 21.19                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 0         | 21.84                    | 21.81                     | 21.66                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 3         | 21.98                    | 21.98                     | 21.73                     | 23                        | 1           |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 5         | 21.62                    | 21.49                     | 21.25                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 0         | 21.84                    | 21.74                     | 21.73                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 1         | 21.88                    | 21.98                     | 21.76                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 3         | 21.57                    | 21.57                     | 21.26                     | 22                        | 2           |  |                           |             |  |
| 1.4             | 16QAM      | 6       | 0         | 20.60                    | 20.60                     | 20.29                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 0         | 20.66                    | 20.75                     | 20.50                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 3         | 20.65                    | 20.87                     | 20.57                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 5         | 20.44                    | 20.45                     | 20.15                     | 22                        | 2           |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 0         | 20.72                    | 20.72                     | 20.45                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 1         | 20.86                    | 20.92                     | 20.61                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 3         | 20.44                    | 20.45                     | 20.16                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 6       | 0         | 19.55                    | 19.54                     | 19.27                     | 21                        | 3           |  |                           |             |  |

| Band 38         |            |         |           |                             |                                |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| 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         |            |         |           | 37850                       | 38000                          | 38150                        |                        |             |  |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                        |             |  |
| 20              | QPSK       | 1       | 0         | 22.45                       | 22.48                          | 22.56                        |                        |             |  |
| 20              | QPSK       | 1       | 49        | 22.91                       | 22.96                          | 22.95                        | 24                     | 0           |  |
| 20              | QPSK       | 1       | 99        | 22.56                       | 22.60                          | 22.73                        |                        |             |  |
| 20              | QPSK       | 50      | 0         | 21.70                       | 21.76                          | 21.75                        |                        |             |  |
| 20              | QPSK       | 50      | 24        | 21.64                       | 21.71                          | 21.70                        | 23                     | 1           |  |
| 20              | QPSK       | 50      | 50        | 21.89                       | 21.70                          | 21.75                        |                        |             |  |
| 20              | QPSK       | 100     | 0         | 21.67                       | 21.75                          | 21.72                        |                        |             |  |
| 20              | 16QAM      | 1       | 0         | 21.50                       | 21.54                          | 21.62                        | 23                     | 1           |  |
| 20              | 16QAM      | 1       | 49        | 21.94                       | 22.03                          | 22.03                        |                        |             |  |
| 20              | 16QAM      | 1       | 99        | 21.63                       | 21.72                          | 21.80                        |                        |             |  |
| 20              | 16QAM      | 50      | 0         | 20.62                       | 20.67                          | 20.77                        | 22                     | 2           |  |
| 20              | 16QAM      | 50      | 24        | 20.70                       | 20.73                          | 20.82                        |                        |             |  |
| 20              | 16QAM      | 50      | 50        | 20.73                       | 20.75                          | 20.84                        |                        |             |  |
| 20              | 16QAM      | 100     | 0         | 20.68                       | 20.67                          | 20.83                        | 22                     | 2           |  |
| 20              | 64QAM      | 1       | 0         | 20.30                       | 20.34                          | 20.43                        |                        |             |  |
| 20              | 64QAM      | 1       | 49        | 20.74                       | 20.76                          | 20.78                        |                        |             |  |
| 20              | 64QAM      | 1       | 99        | 20.39                       | 20.49                          | 20.55                        | 21                     | 3           |  |
| 20              | 64QAM      | 50      | 0         | 19.69                       | 19.64                          | 19.75                        |                        |             |  |
| 20              | 64QAM      | 50      | 24        | 19.64                       | 19.71                          | 19.81                        |                        |             |  |
| 20              | 64QAM      | 50      | 50        | 19.71                       | 19.73                          | 19.83                        | 20                     |             |  |
| 20              | 64QAM      | 100     | 0         | 19.68                       | 19.72                          | 19.84                        |                        |             |  |
| Channel         |            |         |           | 37825                       | 38000                          | 38175                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                        |             |  |
| 15              | QPSK       | 1       | 0         | 22.36                       | 22.38                          | 22.53                        |                        | 24          |  |
| 15              | QPSK       | 1       | 37        | 22.83                       | 22.92                          | 22.90                        |                        |             |  |
| 15              | QPSK       | 1       | 74        | 22.51                       | 22.55                          | 22.65                        |                        |             |  |
| 15              | QPSK       | 36      | 0         | 21.67                       | 21.69                          | 21.71                        | 23                     | 1           |  |
| 15              | QPSK       | 36      | 20        | 21.61                       | 21.63                          | 21.66                        |                        |             |  |
| 15              | QPSK       | 36      | 39        | 21.59                       | 21.63                          | 21.66                        |                        |             |  |
| 15              | QPSK       | 75      | 0         | 21.58                       | 21.67                          | 21.63                        | 23                     | 1           |  |
| 15              | 16QAM      | 1       | 0         | 21.41                       | 21.45                          | 21.57                        |                        |             |  |
| 15              | 16QAM      | 1       | 37        | 21.91                       | 21.97                          | 21.93                        |                        |             |  |
| 15              | 16QAM      | 1       | 74        | 21.53                       | 21.67                          | 21.75                        | 22                     | 2           |  |
| 15              | 16QAM      | 36      | 0         | 20.58                       | 20.61                          | 20.71                        |                        |             |  |
| 15              | 16QAM      | 36      | 20        | 20.62                       | 20.68                          | 20.76                        |                        |             |  |
| 15              | 16QAM      | 36      | 39        | 20.69                       | 20.70                          | 20.79                        | 22                     | 2           |  |
| 15              | 16QAM      | 75      | 0         | 20.65                       | 20.64                          | 20.75                        |                        |             |  |
| 15              | 64QAM      | 1       | 0         | 20.23                       | 20.25                          | 20.37                        |                        |             |  |
| 15              | 64QAM      | 1       | 37        | 20.71                       | 20.67                          | 20.70                        | 22                     | 2           |  |
| 15              | 64QAM      | 1       | 74        | 20.36                       | 20.43                          | 20.45                        |                        |             |  |
| 15              | 64QAM      | 36      | 0         | 19.53                       | 19.56                          | 19.70                        |                        |             |  |
| 15              | 64QAM      | 36      | 20        | 19.55                       | 19.66                          | 19.76                        | 21                     | 3           |  |
| 15              | 64QAM      | 36      | 39        | 19.66                       | 19.70                          | 19.80                        |                        |             |  |
| 15              | 64QAM      | 75      | 0         | 19.59                       | 19.63                          | 19.79                        |                        |             |  |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                        |             |  |
| 10              | QPSK       | 1       | 0         | 22.41                       | 22.36                          | 22.52                        |                        | 24          |  |
| 10              | QPSK       | 1       | 25        | 22.62                       | 22.89                          | 22.85                        |                        |             |  |
| 10              | QPSK       | 1       | 49        | 22.47                       | 22.51                          | 22.66                        |                        |             |  |
| 10              | QPSK       | 25      | 0         | 21.60                       | 21.68                          | 21.68                        | 23                     | 1           |  |
| 10              | QPSK       | 25      | 12        | 21.56                       | 21.68                          | 21.64                        |                        |             |  |
| 10              | QPSK       | 25      | 25        | 21.66                       | 21.67                          | 21.69                        |                        |             |  |
| 10              | QPSK       | 50      | 0         | 21.61                       | 21.68                          | 21.66                        | 23                     | 1           |  |
| 10              | 16QAM      | 1       | 0         | 21.42                       | 21.45                          | 21.57                        |                        |             |  |
| 10              | 16QAM      | 1       | 25        | 21.89                       | 21.94                          | 21.93                        |                        |             |  |
| 10              | 16QAM      | 1       | 49        | 21.60                       | 21.65                          | 21.77                        | 22                     | 2           |  |
| 10              | 16QAM      | 25      | 0         | 20.53                       | 20.59                          | 20.68                        |                        |             |  |
| 10              | 16QAM      | 25      | 12        | 20.65                       | 20.67                          | 20.73                        |                        |             |  |
| 10              | 16QAM      | 25      | 25        | 20.70                       | 20.68                          | 20.77                        | 22                     | 2           |  |
| 10              | 16QAM      | 50      | 0         | 20.64                       | 20.61                          | 20.78                        |                        |             |  |
| 10              | 64QAM      | 1       | 0         | 20.27                       | 20.30                          | 20.37                        |                        |             |  |
| 10              | 64QAM      | 1       | 25        | 20.67                       | 20.70                          | 20.73                        | 22                     | 2           |  |
| 10              | 64QAM      | 1       | 49        | 20.36                       | 20.41                          | 20.49                        |                        |             |  |
| 10              | 64QAM      | 25      | 0         | 19.49                       | 19.59                          | 19.67                        |                        |             |  |
| 10              | 64QAM      | 25      | 12        | 19.55                       | 19.68                          | 19.76                        | 21                     | 3           |  |
| 10              | 64QAM      | 25      | 25        | 19.63                       | 19.70                          | 19.77                        |                        |             |  |
| 10              | 64QAM      | 50      | 0         | 19.61                       | 19.64                          | 19.74                        |                        |             |  |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                        |             |  |
| 5               | QPSK       | 1       | 0         | 22.36                       | 22.39                          | 22.51                        |                        | 24          |  |
| 5               | QPSK       | 1       | 12        | 22.88                       | 22.90                          | 22.86                        |                        |             |  |
| 5               | QPSK       | 1       | 24        | 22.47                       | 22.53                          | 22.70                        |                        |             |  |
| 5               | QPSK       | 12      | 0         | 21.66                       | 21.71                          | 21.71                        | 23                     | 1           |  |
| 5               | QPSK       | 12      | 7         | 21.58                       | 21.63                          | 21.60                        |                        |             |  |
| 5               | QPSK       | 12      | 13        | 21.61                       | 21.67                          | 21.70                        |                        |             |  |
| 5               | QPSK       | 25      | 0         | 21.58                       | 21.72                          | 21.63                        | 23                     | 1           |  |
| 5               | 16QAM      | 1       | 0         | 21.47                       | 21.49                          | 21.55                        |                        |             |  |
| 5               | 16QAM      | 1       | 12        | 21.85                       | 21.95                          | 21.97                        |                        |             |  |
| 5               | 16QAM      | 1       | 24        | 21.60                       | 21.66                          | 21.76                        | 22                     | 2           |  |
| 5               | 16QAM      | 12      | 0         | 20.53                       | 20.59                          | 20.70                        |                        |             |  |
| 5               | 16QAM      | 12      | 7         | 20.60                       | 20.64                          | 20.77                        |                        |             |  |
| 5               | 16QAM      | 12      | 13        | 20.68                       | 20.72                          | 20.75                        | 22                     | 2           |  |
| 5               | 16QAM      | 25      | 0         | 20.62                       | 20.58                          | 20.76                        |                        |             |  |
| 5               | 64QAM      | 1       | 0         | 20.23                       | 20.24                          | 20.36                        |                        |             |  |
| 5               | 64QAM      | 1       | 12        | 20.69                       | 20.69                          | 20.75                        | 22                     | 2           |  |
| 5               | 64QAM      | 1       | 24        | 20.34                       | 20.44                          | 20.52                        |                        |             |  |
| 5               | 64QAM      | 12      | 0         | 19.54                       | 19.57                          | 19.71                        |                        |             |  |
| 5               | 64QAM      | 12      | 7         | 19.57                       | 19.65                          | 19.77                        | 21                     | 3           |  |
| 5               | 64QAM      | 12      | 13        | 19.66                       | 19.68                          | 19.74                        |                        |             |  |
| 5               | 64QAM      | 25      | 0         | 19.59                       | 19.64                          | 19.76                        |                        |             |  |

# Reduced Power for Receiver on

| GSM850          |  | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|--|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel      |  | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) |  | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   |  | 32.41                     | 32.48 | 32.40 | 33.50               | 23.41                     | 23.48 | 23.40 | 24.50               |
| GPRS 1 Tx slot  |  | 32.40                     | 32.46 | 32.39 | 33.50               | 23.40                     | 23.46 | 23.39 | 24.50               |
| GPRS 2 Tx slots |  | 31.58                     | 31.60 | 31.59 | 32.50               | 25.58                     | 25.60 | 25.59 | 26.50               |
| GPRS 3 Tx slots |  | 29.79                     | 29.81 | 29.80 | 31.00               | 25.53                     | 25.55 | 25.54 | 26.74               |
| GPRS 1 Tx slot  |  | 28.64                     | 28.67 | 28.66 | 30.00               | 25.64                     | 25.67 | 25.66 | 27.00               |
| EDGE 1 Tx slot  |  | 27.00                     | 26.91 | 27.00 | 28.00               | 18.00                     | 17.91 | 18.00 | 19.00               |
| EDGE 2 Tx slots |  | 25.92                     | 25.74 | 25.98 | 26.50               | 19.92                     | 19.74 | 19.88 | 20.50               |
| EDGE 3 Tx slots |  | 23.77                     | 23.60 | 23.60 | 24.50               | 19.51                     | 19.34 | 19.34 | 20.24               |
| EDGE 4 Tx slots |  | 22.53                     | 22.36 | 22.37 | 23.00               | 19.53                     | 19.36 | 19.37 | 20.00               |

| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|--|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel      |  | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz) |  | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   |  | 29.00                     | 29.21 | 29.70  | 30.50               | 20.00                     | 20.21 | 20.70  | 21.50               |
| GPRS 1 Tx slot  |  | 28.99                     | 29.20 | 29.68  | 30.50               | 19.99                     | 20.20 | 20.68  | 21.50               |
| GPRS 2 Tx slots |  | 28.27                     | 28.47 | 28.94  | 30.00               | 22.27                     | 22.47 | 22.94  | 24.00               |
| GPRS 3 Tx slots |  | 26.55                     | 26.72 | 27.21  | 28.00               | 22.29                     | 22.46 | 22.95  | 23.74               |
| GPRS 4 Tx slots |  | 25.46                     | 25.62 | 26.09  | 27.00               | 22.46                     | 22.62 | 23.09  | 24.00               |
| EDGE 1 Tx slot  |  | 25.82                     | 25.54 | 25.88  | 26.50               | 16.82                     | 16.54 | 16.88  | 17.50               |
| EDGE 2 Tx slots |  | 24.91                     | 24.67 | 25.00  | 25.50               | 18.91                     | 18.67 | 19.00  | 19.50               |
| EDGE 3 Tx slots |  | 23.05                     | 22.74 | 23.02  | 24.00               | 18.79                     | 18.48 | 18.76  | 19.74               |
| EDGE 4 Tx slots |  | 22.00                     | 21.70 | 22.01  | 23.00               | 19.00                     | 18.70 | 19.01  | 20.00               |

| Band            |                         | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
| TX Channel      |                         | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| Rx Channel      |                         | 9662     | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
| Frequency (MHz) |                         | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99     | AMR 12.2Kbps            | 22.13    | 22.02 | 22.35  | 24.00               | 22.76    | 22.54  | 22.52  | 24.00               | 22.35   | 22.39 | 22.37 | 24.00               |
| 3GPP Rel 99     | RMC 12.2Kbps            | 22.15    | 22.04 | 22.37  | 24.00               | 22.78    | 22.56  | 22.54  | 24.00               | 22.37   | 22.40 | 22.38 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1         | 21.27    | 21.07 | 21.42  | 23.00               | 21.88    | 21.64  | 21.40  | 23.00               | 21.45   | 21.45 | 21.51 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2         | 21.22    | 21.02 | 21.33  | 23.00               | 21.77    | 21.58  | 21.57  | 23.00               | 21.41   | 21.33 | 21.36 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3         | 20.67    | 20.52 | 20.91  | 22.50               | 21.25    | 21.12  | 21.04  | 22.50               | 20.93   | 20.86 | 20.89 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4         | 20.72    | 20.51 | 20.90  | 22.50               | 21.28    | 21.09  | 21.04  | 22.50               | 20.90   | 20.81 | 20.84 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 21.20    | 21.05 | 21.29  | 23.00               | 21.79    | 21.50  | 21.25  | 23.00               | 21.38   | 21.34 | 21.43 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 21.12    | 21.01 | 21.25  | 23.00               | 21.70    | 21.50  | 21.44  | 23.00               | 21.30   | 21.19 | 21.26 | 23.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 20.60    | 20.51 | 20.77  | 22.50               | 21.15    | 21.03  | 20.96  | 22.50               | 20.86   | 20.72 | 20.82 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 20.63    | 20.50 | 20.77  | 22.50               | 21.13    | 20.95  | 20.93  | 22.50               | 20.81   | 20.72 | 20.69 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 19.31    | 19.18 | 19.52  | 21.00               | 19.89    | 19.68  | 19.68  | 21.00               | 19.48   | 19.46 | 19.50 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 19.23    | 19.12 | 19.47  | 21.00               | 19.86    | 19.67  | 19.63  | 21.00               | 19.49   | 19.46 | 19.42 | 21.00               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 20.29    | 20.15 | 20.48  | 21.50               | 20.92    | 20.68  | 20.70  | 21.50               | 20.50   | 20.46 | 20.48 | 21.50               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 19.16    | 19.11 | 19.19  | 20.50               | 19.40    | 19.15  | 19.19  | 20.50               | 19.17   | 19.20 | 19.22 | 20.50               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 20.30    | 20.10 | 20.30  | 21.50               | 20.80    | 20.60  | 20.60  | 21.50               | 20.50   | 20.40 | 20.30 | 21.50               |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 19.91    | 19.89 | 19.95  | 21.00               | 20.38    | 20.34  | 20.31  | 21.00               | 20.01   | 20.05 | 20.00 | 21.00               |



| Band 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) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 20              | QPSK       | 1       | 0         | 22.27               | 22.09                  | 22.10                | 24                  | 0        |    |   |  |  |
| 20              | QPSK       | 1       | 49        | 22.36               | 22.37                  | 22.25                |                     |          |    |   |  |  |
| 20              | QPSK       | 1       | 99        | 22.00               | 22.11                  | 22.08                |                     |          |    |   |  |  |
| 20              | QPSK       | 50      | 0         | 21.31               | 21.35                  | 21.28                |                     |          |    |   |  |  |
| 20              | QPSK       | 50      | 24        | 21.27               | 21.24                  | 21.24                | 23                  | 1        |    |   |  |  |
| 20              | QPSK       | 50      | 50        | 21.20               | 21.11                  | 21.00                |                     |          |    |   |  |  |
| 20              | QPSK       | 100     | 0         | 21.26               | 21.27                  | 21.15                |                     |          |    |   |  |  |
| 20              | 16QAM      | 1       | 0         | 21.56               | 21.42                  | 21.46                |                     |          |    |   |  |  |
| 20              | 16QAM      | 1       | 49        | 21.72               | 21.68                  | 21.66                | 23                  | 1        |    |   |  |  |
| 20              | 16QAM      | 1       | 99        | 21.29               | 21.25                  | 21.18                |                     |          |    |   |  |  |
| 20              | 16QAM      | 50      | 0         | 20.26               | 20.26                  | 20.27                |                     |          |    |   |  |  |
| 20              | 16QAM      | 50      | 24        | 20.25               | 20.33                  | 20.30                |                     |          |    |   |  |  |
| 20              | 16QAM      | 100     | 0         | 20.36               | 20.36                  | 20.27                | 22                  | 2        |    |   |  |  |
| 20              | 16QAM      | 100     | 0         | 20.30               | 20.27                  | 20.19                |                     |          |    |   |  |  |
| 20              | 64QAM      | 1       | 0         | 20.51               | 20.37                  | 20.37                |                     |          |    |   |  |  |
| 20              | 64QAM      | 1       | 49        | 20.61               | 20.55                  | 20.52                |                     |          |    |   |  |  |
| 20              | 64QAM      | 1       | 99        | 20.15               | 20.24                  | 20.20                | 22                  | 2        |    |   |  |  |
| 20              | 64QAM      | 50      | 0         | 19.28               | 19.25                  | 19.28                |                     |          |    |   |  |  |
| 20              | 64QAM      | 50      | 24        | 19.34               | 19.29                  | 19.29                |                     |          |    |   |  |  |
| 20              | 64QAM      | 50      | 50        | 19.32               | 19.16                  | 19.04                |                     |          |    |   |  |  |
| 20              | 64QAM      | 100     | 0         | 19.33               | 19.23                  | 19.20                | 21                  | 3        |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 15              | QPSK       | 1       | 0         | 22.24               | 22.04                  | 22.06                |                     |          | 24 | 0 |  |  |
| 15              | QPSK       | 1       | 37        | 22.32               | 22.31                  | 22.17                |                     |          |    |   |  |  |
| 15              | QPSK       | 1       | 74        | 22.01               | 22.04                  | 22.00                |                     |          |    |   |  |  |
| 15              | QPSK       | 36      | 0         | 21.25               | 21.25                  | 21.20                |                     |          |    |   |  |  |
| 15              | QPSK       | 36      | 20        | 21.18               | 21.17                  | 21.20                | 23                  | 1        |    |   |  |  |
| 15              | QPSK       | 36      | 39        | 21.13               | 21.04                  | 21.04                |                     |          |    |   |  |  |
| 15              | QPSK       | 75      | 0         | 21.18               | 21.21                  | 21.07                |                     |          |    |   |  |  |
| 15              | 16QAM      | 1       | 0         | 21.48               | 21.32                  | 21.41                |                     |          |    |   |  |  |
| 15              | 16QAM      | 1       | 37        | 21.65               | 21.60                  | 21.57                | 23                  | 1        |    |   |  |  |
| 15              | 16QAM      | 1       | 74        | 21.25               | 21.14                  | 21.12                |                     |          |    |   |  |  |
| 15              | 16QAM      | 36      | 0         | 20.23               | 20.22                  | 20.17                |                     |          |    |   |  |  |
| 15              | 16QAM      | 36      | 20        | 20.25               | 20.29                  | 20.24                |                     |          |    |   |  |  |
| 15              | 16QAM      | 36      | 39        | 20.33               | 20.12                  | 20.01                | 22                  | 2        |    |   |  |  |
| 15              | 16QAM      | 75      | 0         | 20.26               | 20.17                  | 20.15                |                     |          |    |   |  |  |
| 15              | 64QAM      | 1       | 0         | 20.35               | 20.16                  | 20.15                |                     |          |    |   |  |  |
| 15              | 64QAM      | 1       | 37        | 20.53               | 20.46                  | 20.48                |                     |          |    |   |  |  |
| 15              | 64QAM      | 1       | 74        | 20.11               | 20.17                  | 20.10                | 22                  | 2        |    |   |  |  |
| 15              | 64QAM      | 36      | 0         | 19.22               | 19.19                  | 19.20                |                     |          |    |   |  |  |
| 15              | 64QAM      | 36      | 20        | 19.29               | 19.26                  | 19.23                |                     |          |    |   |  |  |
| 15              | 64QAM      | 36      | 39        | 19.26               | 19.13                  | 19.04                |                     |          |    |   |  |  |
| 15              | 64QAM      | 75      | 0         | 19.28               | 19.20                  | 19.12                | 21                  | 3        |    |   |  |  |
| 15              | 64QAM      | 75      | 0         | 19.28               | 19.20                  | 19.12                |                     |          |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 10              | QPSK       | 1       | 0         | 22.20               | 22.00                  | 22.07                | 24                  | 0        |    |   |  |  |
| 10              | QPSK       | 1       | 25        | 22.32               | 22.29                  | 22.18                |                     |          |    |   |  |  |
| 10              | QPSK       | 1       | 49        | 22.02               | 22.04                  | 22.00                |                     |          |    |   |  |  |
| 10              | QPSK       | 25      | 0         | 21.25               | 21.32                  | 21.21                |                     |          |    |   |  |  |
| 10              | QPSK       | 25      | 12        | 21.17               | 21.20                  | 21.19                | 23                  | 1        |    |   |  |  |
| 10              | QPSK       | 25      | 25        | 21.17               | 21.03                  | 21.07                |                     |          |    |   |  |  |
| 10              | QPSK       | 50      | 0         | 21.19               | 21.24                  | 21.09                |                     |          |    |   |  |  |
| 10              | 16QAM      | 1       | 0         | 21.49               | 21.38                  | 21.43                |                     |          |    |   |  |  |
| 10              | 16QAM      | 1       | 25        | 21.62               | 21.63                  | 21.58                | 23                  | 1        |    |   |  |  |
| 10              | 16QAM      | 1       | 49        | 21.25               | 21.16                  | 21.10                |                     |          |    |   |  |  |
| 10              | 16QAM      | 25      | 0         | 20.18               | 20.20                  | 20.17                |                     |          |    |   |  |  |
| 10              | 16QAM      | 25      | 12        | 20.25               | 20.25                  | 20.26                |                     |          |    |   |  |  |
| 10              | 16QAM      | 25      | 25        | 20.26               | 20.09                  | 20.05                | 22                  | 2        |    |   |  |  |
| 10              | 16QAM      | 50      | 0         | 20.23               | 20.22                  | 20.11                |                     |          |    |   |  |  |
| 10              | 64QAM      | 1       | 0         | 20.42               | 20.30                  | 20.27                |                     |          |    |   |  |  |
| 10              | 64QAM      | 1       | 25        | 20.51               | 20.52                  | 20.48                |                     |          |    |   |  |  |
| 10              | 64QAM      | 1       | 49        | 20.07               | 20.18                  | 20.13                | 22                  | 2        |    |   |  |  |
| 10              | 64QAM      | 25      | 0         | 19.19               | 19.20                  | 19.23                |                     |          |    |   |  |  |
| 10              | 64QAM      | 25      | 12        | 19.26               | 19.21                  | 19.24                |                     |          |    |   |  |  |
| 10              | 64QAM      | 25      | 25        | 19.25               | 19.08                  | 19.09                |                     |          |    |   |  |  |
| 10              | 64QAM      | 50      | 0         | 19.26               | 19.15                  | 19.15                | 21                  | 3        |    |   |  |  |
| 10              | 64QAM      | 50      | 0         | 19.26               | 19.15                  | 19.15                |                     |          |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 5               | QPSK       | 1       | 0         | 22.19               | 22.04                  | 22.00                | 24                  | 0        |    |   |  |  |
| 5               | QPSK       | 1       | 12        | 22.31               | 22.32                  | 22.22                |                     |          |    |   |  |  |
| 5               | QPSK       | 1       | 24        | 22.02               | 22.02                  | 22.08                |                     |          |    |   |  |  |
| 5               | QPSK       | 12      | 0         | 21.24               | 21.32                  | 21.21                |                     |          |    |   |  |  |
| 5               | QPSK       | 12      | 7         | 21.18               | 21.15                  | 21.17                | 23                  | 1        |    |   |  |  |
| 5               | QPSK       | 12      | 13        | 21.14               | 21.02                  | 21.06                |                     |          |    |   |  |  |
| 5               | QPSK       | 25      | 0         | 21.18               | 21.19                  | 21.07                |                     |          |    |   |  |  |
| 5               | 16QAM      | 1       | 0         | 21.50               | 21.37                  | 21.39                |                     |          |    |   |  |  |
| 5               | 16QAM      | 1       | 12        | 21.67               | 21.62                  | 21.63                | 23                  | 1        |    |   |  |  |
| 5               | 16QAM      | 1       | 24        | 21.22               | 21.17                  | 21.14                |                     |          |    |   |  |  |
| 5               | 16QAM      | 12      | 0         | 20.21               | 20.20                  | 20.17                |                     |          |    |   |  |  |
| 5               | 16QAM      | 12      | 7         | 20.27               | 20.25                  | 20.26                |                     |          |    |   |  |  |
| 5               | 16QAM      | 12      | 13        | 20.28               | 20.11                  | 20.07                | 22                  | 2        |    |   |  |  |
| 5               | 16QAM      | 25      | 0         | 20.25               | 20.23                  | 20.16                |                     |          |    |   |  |  |
| 5               | 64QAM      | 1       | 0         | 20.41               | 20.27                  | 20.32                |                     |          |    |   |  |  |
| 5               | 64QAM      | 1       | 12        | 20.57               | 20.45                  | 20.46                |                     |          |    |   |  |  |
| 5               | 64QAM      | 1       | 24        | 20.11               | 20.15                  | 20.13                | 22                  | 2        |    |   |  |  |
| 5               | 64QAM      | 12      | 0         | 19.19               | 19.22                  | 19.18                |                     |          |    |   |  |  |
| 5               | 64QAM      | 12      | 7         | 19.31               | 19.21                  | 19.20                |                     |          |    |   |  |  |
| 5               | 64QAM      | 12      | 13        | 19.28               | 19.07                  | 19.05                |                     |          |    |   |  |  |
| 5               | 64QAM      | 25      | 0         | 19.23               | 19.20                  | 19.11                | 21                  | 3        |    |   |  |  |
| 5               | 64QAM      | 25      | 0         | 19.23               | 19.20                  | 19.11                |                     |          |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 3               | QPSK       | 1       | 0         | 22.18               | 22.02                  | 22.04                | 24                  | 0        |    |   |  |  |
| 3               | QPSK       | 1       | 8         | 22.29               | 22.33                  | 22.20                |                     |          |    |   |  |  |
| 3               | QPSK       | 1       | 14        | 22.05               | 22.02                  | 22.04                |                     |          |    |   |  |  |
| 3               | QPSK       | 8       | 0         | 21.24               | 21.32                  | 21.23                |                     |          |    |   |  |  |
| 3               | QPSK       | 8       | 4         | 21.20               | 21.19                  | 21.17                | 23                  | 1        |    |   |  |  |
| 3               | QPSK       | 8       | 7         | 21.12               | 21.07                  | 21.01                |                     |          |    |   |  |  |
| 3               | QPSK       | 15      | 0         | 21.23               | 21.18                  | 21.09                |                     |          |    |   |  |  |
| 3               | 16QAM      | 1       | 0         | 21.47               | 21.38                  | 21.37                |                     |          |    |   |  |  |
| 3               | 16QAM      | 1       | 8         | 21.62               | 21.60                  | 21.59                | 23                  | 1        |    |   |  |  |
| 3               | 16QAM      | 1       | 14        | 21.21               | 21.19                  | 21.08                |                     |          |    |   |  |  |
| 3               | 16QAM      | 8       | 0         | 20.19               | 20.18                  | 20.18                |                     |          |    |   |  |  |
| 3               | 16QAM      | 8       | 4         | 20.26               | 20.26                  | 20.26                |                     |          |    |   |  |  |
| 3               | 16QAM      | 8       | 7         | 20.26               | 20.11                  | 20.09                | 22                  | 2        |    |   |  |  |
| 3               | 16QAM      | 15      | 0         | 20.24               | 20.20                  | 20.14                |                     |          |    |   |  |  |
| 3               | 64QAM      | 1       | 0         | 20.42               | 20.28                  | 20.27                |                     |          |    |   |  |  |
| 3               | 64QAM      | 1       | 8         | 20.55               | 20.46                  | 20.46                |                     |          |    |   |  |  |
| 3               | 64QAM      | 1       | 14        | 20.11               | 20.19                  | 20.17                | 21                  | 3        |    |   |  |  |
| 3               | 64QAM      | 8       | 0         | 19.23               | 19.16                  | 19.16                |                     |          |    |   |  |  |
| 3               | 64QAM      | 8       | 4         | 19.28               | 19.21                  | 19.19                |                     |          |    |   |  |  |
| 3               | 64QAM      | 8       | 7         | 19.25               | 19.09                  | 19.07                | 21                  | 3        |    |   |  |  |
| 3               | 64QAM      | 15      | 0         | 19.29               | 19.16                  | 19.16                |                     |          |    |   |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |    |   |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.28               | 22.22                  | 22.24                | 24                  | 0        |    |   |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.33               | 22.20                  | 22.13                |                     |          |    |   |  |  |
| 1.4             | QPSK       | 3       | 0         | 22.34               | 22.36                  | 22.34                |                     |          |    |   |  |  |
| 1.4             | QPSK       | 3       | 3         | 22.36               | 22.32                  | 22.22                |                     |          |    |   |  |  |
| 1.4             | QPSK       | 3       | 3         | 22.34               | 22.26                  | 22.26                | 23                  | 1        |    |   |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.42               | 21.42                  | 21.34                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.88               | 21.72                  | 21.75                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 1       | 3         | 21.86               | 21.51                  | 21.67                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.98               | 21.84                  | 21.26                | 23                  | 1        |    |   |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.52               | 21.33                  | 21.09                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.38               | 21.63                  | 21.13                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.50               | 21.34                  | 21.38                |                     |          |    |   |  |  |
| 1.4             | 16QAM      | 6       | 0         | 20.57               | 20.48                  | 20.38                | 22                  | 2        |    |   |  |  |
| 1.4             | 16QAM      | 6       | 0         | 20.33               | 20.54                  | 20.01                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 1       | 3         | 20.83               | 20.57                  | 20.62                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 3       | 0         | 20.64               | 20.51                  | 20.48                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 3       | 5         | 20.66               | 20.57                  | 20.48                | 22                  | 2        |    |   |  |  |
| 1.4             | 64QAM      | 3       | 20        | 20.69               | 20.61                  | 20.17                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 3       | 3         | 20.70               | 20.55                  | 20.37                |                     |          |    |   |  |  |
| 1.4             | 64QAM      | 6       | 0         | 19.58               | 19.39                  | 19.22                |                     |          |    |   |  |  |

| Band 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         |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 22.43                 | 22.43                    | 22.58                  | 24                  | 0        |  |
| 20              | QPSK       | 1       | 49        | 22.66                 | 22.68                    | 23.05                  |                     |          |  |
| 20              | QPSK       | 1       | 99        | 22.38                 | 22.53                    | 22.94                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 21.58                 | 21.55                    | 22.03                  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 21.62                 | 21.65                    | 22.02                  | 23                  | 1        |  |
| 20              | QPSK       | 50      | 50        | 21.66                 | 21.51                    | 21.98                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 21.62                 | 21.55                    | 21.97                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 21.72                 | 21.78                    | 21.91                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 21.99                 | 22.00                    | 22.32                  | 23                  | 1        |  |
| 20              | 16QAM      | 1       | 99        | 21.78                 | 21.83                    | 22.23                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 20.58                 | 20.55                    | 20.87                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 20.59                 | 20.63                    | 20.96                  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 20.68                 | 20.51                    | 21.04                  | 22                  | 2        |  |
| 20              | 16QAM      | 100     | 0         | 20.60                 | 20.55                    | 20.98                  |                     |          |  |
| 20              | 64QAM      | 1       | 0         | 20.64                 | 20.59                    | 20.84                  |                     |          |  |
| 20              | 64QAM      | 1       | 49        | 20.88                 | 20.82                    | 21.14                  |                     |          |  |
| 20              | 64QAM      | 1       | 99        | 20.61                 | 20.69                    | 21.15                  | 22                  | 2        |  |
| 20              | 64QAM      | 50      | 0         | 19.56                 | 19.52                    | 19.84                  |                     |          |  |
| 20              | 64QAM      | 50      | 24        | 19.59                 | 19.61                    | 19.97                  |                     |          |  |
| 20              | 64QAM      | 50      | 50        | 19.69                 | 19.49                    | 20.04                  |                     |          |  |
| 20              | 64QAM      | 100     | 0         | 19.62                 | 19.52                    | 19.97                  | 21                  | 3        |  |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |
| 15              | QPSK       | 1       | 0         | 22.36                 | 22.40                    | 22.52                  | 24                  | 0        |  |
| 15              | QPSK       | 1       | 37        | 22.59                 | 22.59                    | 22.99                  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 22.35                 | 22.44                    | 22.85                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 21.55                 | 21.45                    | 21.99                  |                     |          |  |
| 15              | QPSK       | 36      | 20        | 21.57                 | 21.57                    | 21.93                  | 23                  | 1        |  |
| 15              | QPSK       | 36      | 39        | 21.59                 | 21.45                    | 21.90                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 21.56                 | 21.48                    | 21.91                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 21.69                 | 21.68                    | 21.81                  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 21.69                 | 21.96                    | 22.23                  | 23                  | 1        |  |
| 15              | 16QAM      | 1       | 74        | 21.73                 | 21.74                    | 22.14                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 20.50                 | 20.45                    | 20.77                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 20.55                 | 20.55                    | 20.91                  |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 20.62                 | 20.47                    | 20.94                  | 22                  | 2        |  |
| 15              | 16QAM      | 75      | 0         | 20.55                 | 20.46                    | 20.88                  |                     |          |  |
| 15              | 64QAM      | 1       | 0         | 20.56                 | 20.50                    | 20.81                  |                     |          |  |
| 15              | 64QAM      | 1       | 37        | 20.80                 | 20.75                    | 21.04                  |                     |          |  |
| 15              | 64QAM      | 1       | 74        | 20.58                 | 20.65                    | 21.11                  | 22                  | 2        |  |
| 15              | 64QAM      | 36      | 0         | 19.50                 | 19.42                    | 19.76                  |                     |          |  |
| 15              | 64QAM      | 36      | 20        | 19.52                 | 19.52                    | 19.93                  |                     |          |  |
| 15              | 64QAM      | 36      | 39        | 19.61                 | 19.42                    | 20.00                  |                     |          |  |
| 15              | 64QAM      | 75      | 0         | 19.57                 | 19.49                    | 19.95                  | 21                  | 3        |  |
| Channel         |            |         |           | 20800                 | 21100                    | 21400                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2505                  | 2535                     | 2565                   |                     |          |  |
| 10              | QPSK       | 1       | 0         | 22.38                 | 22.34                    | 22.52                  | 24                  | 0        |  |
| 10              | QPSK       | 1       | 25        | 22.60                 | 22.59                    | 22.98                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 22.29                 | 22.49                    | 22.84                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 21.50                 | 21.50                    | 21.99                  |                     |          |  |
| 10              | QPSK       | 25      | 12        | 21.56                 | 21.56                    | 21.99                  | 23                  | 1        |  |
| 10              | QPSK       | 25      | 25        | 21.59                 | 21.42                    | 21.90                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 21.54                 | 21.45                    | 21.88                  |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 21.65                 | 21.75                    | 21.81                  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 21.91                 | 21.90                    | 22.25                  | 23                  | 1        |  |
| 10              | 16QAM      | 1       | 49        | 21.68                 | 21.78                    | 22.13                  |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 20.48                 | 20.47                    | 20.84                  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 20.56                 | 20.54                    | 20.86                  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 20.64                 | 20.43                    | 20.94                  | 22                  | 2        |  |
| 10              | 16QAM      | 50      | 0         | 20.55                 | 20.47                    | 20.95                  |                     |          |  |
| 10              | 64QAM      | 1       | 0         | 20.54                 | 20.52                    | 20.74                  |                     |          |  |
| 10              | 64QAM      | 1       | 25        | 20.84                 | 20.73                    | 21.04                  |                     |          |  |
| 10              | 64QAM      | 1       | 49        | 20.56                 | 20.63                    | 21.06                  | 22                  | 2        |  |
| 10              | 64QAM      | 25      | 0         | 19.47                 | 19.46                    | 19.76                  |                     |          |  |
| 10              | 64QAM      | 25      | 12        | 19.50                 | 19.53                    | 19.92                  |                     |          |  |
| 10              | 64QAM      | 25      | 25        | 19.66                 | 19.41                    | 20.00                  |                     |          |  |
| 10              | 64QAM      | 50      | 0         | 19.54                 | 19.49                    | 19.94                  | 21                  | 3        |  |
| Channel         |            |         |           | 20775                 | 21100                    | 21425                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5               | QPSK       | 1       | 0         | 22.37                 | 22.40                    | 22.55                  | 24                  | 0        |  |
| 5               | QPSK       | 1       | 12        | 22.60                 | 22.62                    | 23.02                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 22.28                 | 22.44                    | 22.91                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 21.50                 | 21.46                    | 21.96                  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 21.58                 | 21.59                    | 21.96                  | 23                  | 1        |  |
| 5               | QPSK       | 12      | 13        | 21.63                 | 21.43                    | 21.86                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 21.57                 | 21.48                    | 21.90                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 21.69                 | 21.69                    | 21.85                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 21.94                 | 21.90                    | 22.22                  | 23                  | 1        |  |
| 5               | 16QAM      | 1       | 24        | 21.74                 | 21.74                    | 22.17                  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 20.54                 | 20.51                    | 20.79                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 20.53                 | 20.54                    | 20.92                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 20.65                 | 20.43                    | 20.94                  | 22                  | 2        |  |
| 5               | 16QAM      | 25      | 0         | 20.50                 | 20.46                    | 20.92                  |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 20.59                 | 20.53                    | 20.81                  |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 20.79                 | 20.75                    | 21.06                  |                     |          |  |
| 5               | 64QAM      | 1       | 24        | 20.58                 | 20.60                    | 21.12                  | 22                  | 2        |  |
| 5               | 64QAM      | 12      | 0         | 19.53                 | 19.45                    | 19.81                  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 19.52                 | 19.53                    | 19.89                  |                     |          |  |
| 5               | 64QAM      | 12      | 13        | 19.63                 | 19.40                    | 19.97                  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 19.55                 | 19.43                    | 19.90                  | 21                  | 3        |  |

| Band 13         |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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         |            |         |           | 23230                 |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 0         |                       | 22.83                    |                        | 23                  | 1        |  |
| 10              | QPSK       | 1       | 25        |                       | 22.84                    |                        |                     |          |  |
| 10              | QPSK       | 1       | 49        |                       | 22.75                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 0         |                       | 21.80                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 12        |                       | 21.75                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 25        |                       | 21.71                    |                        |                     |          |  |
| 10              | QPSK       | 50      | 0         |                       | 21.76                    |                        |                     |          |  |
| 10              | 16QAM      | 1       | 0         |                       | 21.86                    |                        | 23                  | 1        |  |
| 10              | 16QAM      | 1       | 25        |                       | 22.07                    |                        |                     |          |  |
| 10              | 16QAM      | 1       | 49        |                       | 22.04                    |                        |                     |          |  |
| 10              | 16QAM      | 25      | 0         |                       | 20.76                    |                        |                     |          |  |
| 10              | 16QAM      | 25      | 12        |                       | 20.85                    |                        | 22                  | 2        |  |
| 10              | 16QAM      | 25      | 25        |                       | 20.86                    |                        |                     |          |  |
| 10              | 16QAM      | 50      | 0         |                       | 20.81                    |                        |                     |          |  |
| 10              | 64QAM      | 1       | 0         |                       | 20.85                    |                        |                     |          |  |
| 10              | 64QAM      | 1       | 25        |                       | 21.05                    |                        | 22                  | 2        |  |
| 10              | 64QAM      | 1       | 49        |                       | 20.98                    |                        |                     |          |  |
| 10              | 64QAM      | 25      | 0         |                       | 19.75                    |                        |                     |          |  |
| 10              | 64QAM      | 25      | 12        |                       | 19.87                    |                        |                     |          |  |
| 10              | 64QAM      | 25      | 25        |                       | 19.87                    |                        | 21                  | 3        |  |
| 10              | 64QAM      | 50      | 0         |                       | 19.81                    |                        |                     |          |  |
| Channel         |            |         |           | 23205                 | 23230                    | 23255                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |                     |          |  |
| 5               | QPSK       | 1       | 0         | 22.53                 | 22.53                    | 22.59                  | 24                  | 0        |  |
| 5               | QPSK       | 1       | 12        | 22.75                 | 22.76                    | 22.81                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 22.66                 | 22.66                    | 22.65                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 21.77                 | 21.75                    | 21.75                  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 21.68                 | 21.65                    | 21.67                  | 23                  | 1        |  |
| 5               | QPSK       | 12      | 13        | 21.62                 | 21.61                    | 21.61                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 21.66                 | 21.70                    | 21.72                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 21.81                 | 21.76                    | 21.83                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 22.04                 | 21.98                    | 22.02                  | 23                  | 1        |  |
| 5               | 16QAM      | 1       | 24        | 21.96                 | 21.99                    | 21.99                  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 20.66                 | 20.66                    | 20.69                  | 22                  | 2        |  |
| 5               | 16QAM      | 12      | 7         | 20.76                 | 20.75                    | 20.76                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 20.81                 | 20.83                    | 20.78                  |                     |          |  |
| 5               | 16QAM      | 25      | 0         | 20.71                 | 20.74                    | 20.74                  |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 20.77                 | 20.79                    | 20.79                  | 22                  | 2        |  |
| 5               | 64QAM      | 1       | 12        | 21.02                 | 20.98                    | 21.02                  |                     |          |  |
| 5               | 64QAM      | 1       | 24        | 20.92                 | 20.91                    | 20.90                  |                     |          |  |
| 5               | 64QAM      | 12      | 0         | 19.72                 | 19.70                    | 19.66                  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 19.77                 | 19.84                    | 19.78                  | 21                  | 3        |  |
| 5               | 64QAM      | 12      | 13        | 19.82                 | 19.77                    | 19.79                  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 19.74                 | 19.71                    | 19.76                  |                     |          |  |

| Band 26         |            |         |           |                          |                             |                           |                           |             |             |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|-------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |             |
| Channel         |            |         |           | 26765                    | 26865                       | 26965                     |                           |             |             |
| Frequency (MHz) |            |         |           | 821.5                    | 831.5                       | 841.5                     |                           |             |             |
| 15              | QPSK       | 1       | 0         | 22.40                    | 22.27                       | 22.26                     | 24                        | 0           |             |
| 15              | QPSK       | 1       | 37        | 22.53                    | 22.40                       | 22.47                     |                           |             |             |
| 15              | QPSK       | 1       | 74        | 22.27                    | 22.23                       | 22.31                     |                           |             |             |
| 15              | QPSK       | 36      | 0         | 21.48                    | 21.33                       | 21.39                     |                           |             |             |
| 15              | QPSK       | 36      | 20        | 21.46                    | 21.33                       | 21.41                     | 23                        | 1           |             |
| 15              | QPSK       | 36      | 39        | 21.43                    | 21.26                       | 21.36                     |                           |             |             |
| 15              | QPSK       | 75      | 0         | 21.46                    | 21.27                       | 21.34                     |                           |             |             |
| 15              | 16QAM      | 1       | 0         | 21.66                    | 21.50                       | 21.54                     |                           |             |             |
| 15              | 16QAM      | 1       | 37        | 21.93                    | 21.65                       | 21.76                     | 23                        | 1           |             |
| 15              | 16QAM      | 1       | 74        | 21.58                    | 21.60                       | 21.64                     |                           |             |             |
| 15              | 16QAM      | 36      | 0         | 20.54                    | 20.40                       | 20.46                     |                           |             |             |
| 15              | 16QAM      | 36      | 20        | 20.50                    | 20.39                       | 20.45                     |                           |             |             |
| 15              | 16QAM      | 36      | 39        | 20.45                    | 20.30                       | 20.34                     | 22                        | 2           |             |
| 15              | 16QAM      | 75      | 0         | 20.54                    | 20.32                       | 20.42                     |                           |             |             |
| 15              | 64QAM      | 1       | 0         | 20.70                    | 20.43                       | 20.54                     |                           |             |             |
| 15              | 64QAM      | 1       | 37        | 20.83                    | 20.69                       | 20.82                     |                           |             |             |
| 15              | 64QAM      | 1       | 74        | 20.44                    | 20.50                       | 20.65                     | 21                        | 3           |             |
| 15              | 64QAM      | 36      | 0         | 19.53                    | 19.39                       | 19.48                     |                           |             |             |
| 15              | 64QAM      | 36      | 20        | 19.50                    | 19.42                       | 19.48                     |                           |             |             |
| 15              | 64QAM      | 36      | 39        | 19.46                    | 19.33                       | 19.34                     |                           |             |             |
| 15              | 64QAM      | 75      | 0         | 19.51                    | 19.33                       | 19.40                     |                           |             |             |
| Channel         |            |         |           | 26740                    | 26865                       | 26990                     | Tune-up<br>limit<br>(dbm) |             | MPR<br>(db) |
| Frequency (MHz) |            |         |           | 819                      | 831.5                       | 844                       |                           |             |             |
| 10              | QPSK       | 1       | 0         | 22.37                    | 22.24                       | 22.16                     | 24                        | 0           |             |
| 10              | QPSK       | 1       | 25        | 22.50                    | 22.33                       | 22.40                     |                           |             |             |
| 10              | QPSK       | 1       | 49        | 22.22                    | 22.13                       | 22.22                     |                           |             |             |
| 10              | QPSK       | 25      | 0         | 21.40                    | 21.30                       | 21.29                     |                           |             |             |
| 10              | QPSK       | 25      | 12        | 21.43                    | 21.27                       | 21.33                     | 23                        | 1           |             |
| 10              | QPSK       | 25      | 25        | 21.33                    | 21.22                       | 21.28                     |                           |             |             |
| 10              | QPSK       | 50      | 0         | 21.39                    | 21.23                       | 21.27                     |                           |             |             |
| 10              | 16QAM      | 1       | 0         | 21.56                    | 21.42                       | 21.44                     |                           |             |             |
| 10              | 16QAM      | 1       | 25        | 21.67                    | 21.57                       | 21.71                     | 23                        | 1           |             |
| 10              | 16QAM      | 1       | 49        | 21.54                    | 21.54                       | 21.57                     |                           |             |             |
| 10              | 16QAM      | 25      | 0         | 20.47                    | 20.31                       | 20.43                     |                           |             |             |
| 10              | 16QAM      | 25      | 12        | 20.41                    | 20.31                       | 20.38                     |                           |             |             |
| 10              | 16QAM      | 25      | 25        | 20.37                    | 20.23                       | 20.26                     | 22                        | 2           |             |
| 10              | 16QAM      | 50      | 0         | 20.46                    | 20.24                       | 20.38                     |                           |             |             |
| 10              | 64QAM      | 1       | 0         | 20.63                    | 20.37                       | 20.45                     |                           |             |             |
| 10              | 64QAM      | 1       | 25        | 20.75                    | 20.60                       | 20.77                     |                           |             |             |
| 10              | 64QAM      | 1       | 49        | 20.37                    | 20.40                       | 20.57                     | 22                        | 2           |             |
| 10              | 64QAM      | 25      | 0         | 19.47                    | 19.30                       | 19.44                     |                           |             |             |
| 10              | 64QAM      | 25      | 12        | 19.40                    | 19.32                       | 19.40                     |                           |             |             |
| 10              | 64QAM      | 25      | 25        | 19.42                    | 19.30                       | 19.28                     |                           |             |             |
| 10              | 64QAM      | 50      | 0         | 19.43                    | 19.24                       | 19.35                     | 21                        | 3           |             |
| Channel         |            |         |           | 26715                    | 26865                       | 27015                     |                           |             |             |
| Frequency (MHz) |            |         |           | 816.5                    | 831.5                       | 846.5                     |                           |             |             |
| 5               | QPSK       | 1       | 0         | 22.30                    | 22.24                       | 22.21                     | 24                        | 0           |             |
| 5               | QPSK       | 1       | 12        | 22.47                    | 22.34                       | 22.44                     |                           |             |             |
| 5               | QPSK       | 1       | 24        | 22.24                    | 22.16                       | 22.25                     |                           |             |             |
| 5               | QPSK       | 12      | 0         | 21.45                    | 21.27                       | 21.36                     |                           |             |             |
| 5               | QPSK       | 12      | 7         | 21.40                    | 21.26                       | 21.35                     | 23                        | 1           |             |
| 5               | QPSK       | 12      | 13        | 21.33                    | 21.19                       | 21.23                     |                           |             |             |
| 5               | QPSK       | 25      | 0         | 21.38                    | 21.17                       | 21.25                     |                           |             |             |
| 5               | 16QAM      | 1       | 0         | 21.58                    | 21.40                       | 21.48                     |                           |             |             |
| 5               | 16QAM      | 1       | 12        | 21.84                    | 21.55                       | 21.72                     | 23                        | 1           |             |
| 5               | 16QAM      | 1       | 24        | 21.55                    | 21.57                       | 21.60                     |                           |             |             |
| 5               | 16QAM      | 12      | 0         | 20.50                    | 20.30                       | 20.42                     |                           |             |             |
| 5               | 16QAM      | 12      | 7         | 20.46                    | 20.30                       | 20.37                     |                           |             |             |
| 5               | 16QAM      | 12      | 13        | 20.41                    | 20.27                       | 20.35                     | 22                        | 2           |             |
| 5               | 16QAM      | 25      | 0         | 20.51                    | 20.26                       | 20.37                     |                           |             |             |
| 5               | 64QAM      | 1       | 0         | 20.66                    | 20.39                       | 20.51                     |                           |             |             |
| 5               | 64QAM      | 1       | 12        | 20.74                    | 20.64                       | 20.73                     |                           |             |             |
| 5               | 64QAM      | 1       | 24        | 20.35                    | 20.43                       | 20.56                     | 22                        | 2           |             |
| 5               | 64QAM      | 12      | 0         | 19.46                    | 19.32                       | 19.41                     |                           |             |             |
| 5               | 64QAM      | 12      | 7         | 19.44                    | 19.35                       | 19.45                     |                           |             |             |
| 5               | 64QAM      | 12      | 13        | 19.42                    | 19.29                       | 19.28                     |                           |             |             |
| 5               | 64QAM      | 25      | 0         | 19.42                    | 19.23                       | 19.34                     | 21                        | 3           |             |
| Channel         |            |         |           | 26705                    | 26865                       | 27025                     |                           |             |             |
| Frequency (MHz) |            |         |           | 815.5                    | 831.5                       | 847.5                     |                           |             |             |
| 3               | QPSK       | 1       | 0         | 22.34                    | 22.24                       | 22.16                     | 24                        | 0           |             |
| 3               | QPSK       | 1       | 5         | 22.49                    | 22.30                       | 22.40                     |                           |             |             |
| 3               | QPSK       | 1       | 14        | 22.20                    | 22.14                       | 22.22                     |                           |             |             |
| 3               | QPSK       | 8       | 0         | 21.42                    | 21.27                       | 21.32                     |                           |             |             |
| 3               | QPSK       | 8       | 4         | 21.43                    | 21.23                       | 21.35                     | 23                        | 1           |             |
| 3               | QPSK       | 8       | 7         | 21.37                    | 21.20                       | 21.21                     |                           |             |             |
| 3               | QPSK       | 15      | 0         | 21.43                    | 21.17                       | 21.31                     |                           |             |             |
| 3               | 16QAM      | 1       | 0         | 21.61                    | 21.47                       | 21.48                     |                           |             |             |
| 3               | 16QAM      | 1       | 8         | 21.83                    | 21.55                       | 21.67                     | 23                        | 1           |             |
| 3               | 16QAM      | 1       | 14        | 21.53                    | 21.54                       | 21.61                     |                           |             |             |
| 3               | 16QAM      | 8       | 0         | 20.47                    | 20.32                       | 20.43                     |                           |             |             |
| 3               | 16QAM      | 8       | 4         | 20.45                    | 20.29                       | 20.39                     |                           |             |             |
| 3               | 16QAM      | 8       | 7         | 20.42                    | 20.25                       | 20.26                     | 22                        | 2           |             |
| 3               | 16QAM      | 15      | 0         | 20.47                    | 20.24                       | 20.39                     |                           |             |             |
| 3               | 64QAM      | 1       | 0         | 20.62                    | 20.34                       | 20.49                     |                           |             |             |
| 3               | 64QAM      | 1       | 8         | 20.76                    | 20.61                       | 20.79                     |                           |             |             |
| 3               | 64QAM      | 1       | 14        | 20.36                    | 20.41                       | 20.56                     | 22                        | 2           |             |
| 3               | 64QAM      | 8       | 0         | 19.45                    | 19.29                       | 19.43                     |                           |             |             |
| 3               | 64QAM      | 8       | 4         | 19.47                    | 19.32                       | 19.38                     |                           |             |             |
| 3               | 64QAM      | 8       | 7         | 19.38                    | 19.29                       | 19.25                     |                           |             |             |
| 3               | 64QAM      | 15      | 0         | 19.47                    | 19.25                       | 19.35                     | 21                        | 3           |             |
| Channel         |            |         |           | 26997                    | 26865                       | 27033                     |                           |             |             |
| Frequency (MHz) |            |         |           | 814.7                    | 831.5                       | 848.3                     |                           |             |             |
| 1.4             | QPSK       | 1       | 0         | 22.31                    | 22.20                       | 22.22                     | 24                        | 0           |             |
| 1.4             | QPSK       | 1       | 3         | 22.45                    | 22.32                       | 22.37                     |                           |             |             |
| 1.4             | QPSK       | 1       | 5         | 22.18                    | 22.15                       | 22.27                     |                           |             |             |
| 1.4             | QPSK       | 3       | 0         | 22.27                    | 22.15                       | 22.13                     |                           |             |             |
| 1.4             | QPSK       | 3       | 1         | 22.36                    | 22.27                       | 22.33                     | 23                        | 1           |             |
| 1.4             | QPSK       | 3       | 3         | 22.09                    | 22.12                       | 22.19                     |                           |             |             |
| 1.4             | QPSK       | 6       | 0         | 21.40                    | 21.20                       | 21.28                     |                           |             |             |
| 1.4             | 16QAM      | 1       | 0         | 21.61                    | 21.47                       | 21.48                     |                           |             |             |
| 1.4             | 16QAM      | 1       | 3         | 21.90                    | 21.55                       | 21.70                     | 23                        | 1           |             |
| 1.4             | 16QAM      | 1       | 5         | 21.54                    | 21.50                       | 21.59                     |                           |             |             |
| 1.4             | 16QAM      | 3       | 0         | 21.64                    | 21.46                       | 21.47                     |                           |             |             |
| 1.4             | 16QAM      | 3       | 1         | 21.89                    | 21.54                       | 21.74                     |                           |             |             |
| 1.4             | 16QAM      | 3       | 3         | 21.58                    | 21.52                       | 21.59                     | 22                        | 2           |             |
| 1.4             | 16QAM      | 6       | 0         | 20.51                    | 20.25                       | 20.37                     |                           |             |             |
| 1.4             | 64QAM      | 1       | 0         | 20.65                    | 20.39                       | 20.44                     |                           |             |             |
| 1.4             | 64QAM      | 1       | 3         | 20.80                    | 20.61                       | 20.75                     |                           |             |             |
| 1.4             | 64QAM      | 1       | 5         | 20.39                    | 20.43                       | 20.60                     | 22                        | 2           |             |
| 1.4             | 64QAM      | 3       | 0         | 20.62                    | 20.32                       | 20.39                     |                           |             |             |
| 1.4             | 64QAM      | 3       | 1         | 20.81                    | 20.63                       | 20.80                     |                           |             |             |
| 1.4             | 64QAM      | 3       | 3         | 20.40                    | 20.47                       | 20.59                     |                           |             |             |
| 1.4             | 64QAM      | 6       | 0         | 19.44                    | 19.26                       | 19.33                     | 21                        | 3           |             |

| Band 66         |            |         |           |                          |                          |                           |                           |             |  |                           |             |  |
|-----------------|------------|---------|-----------|--------------------------|--------------------------|---------------------------|---------------------------|-------------|--|---------------------------|-------------|--|
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Mid<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |                           |             |  |
| Channel         |            |         |           | 132072                   | 132322                   | 132572                    |                           |             |  |                           |             |  |
| Frequency (MHz) |            |         |           | 1720                     | 1745                     | 1770                      |                           |             |  |                           |             |  |
| 20              | QPSK       | 1       | 0         | 22.54                    | 22.46                    | 22.34                     | 24                        | 0           |  |                           |             |  |
| 20              | QPSK       | 1       | 49        | 22.61                    | 22.65                    | 22.45                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 1       | 99        | 22.32                    | 22.21                    | 22.00                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 50      | 0         | 21.59                    | 21.64                    | 21.42                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 50      | 24        | 21.59                    | 21.62                    | 21.40                     | 23                        | 1           |  |                           |             |  |
| 20              | QPSK       | 50      | 50        | 21.52                    | 21.48                    | 21.18                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 100     | 0         | 21.60                    | 21.61                    | 21.26                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 1       | 0         | 21.90                    | 21.85                    | 21.69                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 1       | 49        | 22.03                    | 22.02                    | 21.81                     | 23                        | 1           |  |                           |             |  |
| 20              | 16QAM      | 1       | 99        | 21.68                    | 21.57                    | 21.35                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 50      | 0         | 20.66                    | 20.69                    | 20.48                     | 22                        | 2           |  |                           |             |  |
| 20              | 16QAM      | 50      | 24        | 20.65                    | 20.67                    | 20.46                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 50      | 50        | 20.61                    | 20.61                    | 20.25                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 100     | 0         | 20.84                    | 20.84                    | 20.35                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 1       | 0         | 20.75                    | 20.78                    | 20.55                     | 22                        | 2           |  |                           |             |  |
| 20              | 64QAM      | 1       | 49        | 20.90                    | 20.95                    | 20.67                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 1       | 99        | 20.54                    | 20.51                    | 20.22                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 50      | 0         | 19.68                    | 19.68                    | 19.46                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 50      | 24        | 19.65                    | 19.67                    | 19.46                     | 21                        | 3           |  |                           |             |  |
| 20              | 64QAM      | 50      | 50        | 19.61                    | 19.63                    | 19.25                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 100     | 0         | 19.64                    | 19.59                    | 19.36                     |                           |             |  |                           |             |  |
| Channel         |            |         |           | 132047                   | 132322                   | 132597                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                     | 1772.5                    |                           |             |  |                           |             |  |
| 15              | QPSK       | 1       | 0         | 22.44                    | 22.43                    | 22.31                     | 24                        | 0           |  |                           |             |  |
| 15              | QPSK       | 1       | 37        | 22.52                    | 22.61                    | 22.35                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 1       | 74        | 22.29                    | 22.16                    | 22.04                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 36      | 0         | 21.51                    | 21.54                    | 21.39                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 36      | 20        | 21.50                    | 21.52                    | 21.32                     | 23                        | 1           |  |                           |             |  |
| 15              | QPSK       | 36      | 39        | 21.48                    | 21.39                    | 21.08                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 75      | 0         | 21.55                    | 21.56                    | 21.22                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 1       | 0         | 21.87                    | 21.78                    | 21.60                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 1       | 37        | 21.97                    | 21.99                    | 21.76                     | 23                        | 1           |  |                           |             |  |
| 15              | 16QAM      | 1       | 74        | 21.64                    | 21.53                    | 21.27                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 36      | 0         | 20.60                    | 20.63                    | 20.38                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 36      | 20        | 20.60                    | 20.61                    | 20.42                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 36      | 39        | 20.57                    | 20.50                    | 20.17                     | 22                        | 2           |  |                           |             |  |
| 15              | 16QAM      | 75      | 0         | 20.55                    | 20.56                    | 20.31                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 0         | 20.69                    | 20.69                    | 20.46                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 37        | 20.84                    | 20.87                    | 20.54                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 74        | 20.47                    | 20.47                    | 20.18                     | 22                        | 2           |  |                           |             |  |
| 15              | 64QAM      | 36      | 0         | 19.63                    | 19.56                    | 19.36                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 36      | 20        | 19.59                    | 19.64                    | 19.40                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 36      | 39        | 19.52                    | 19.45                    | 19.22                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 75      | 0         | 19.54                    | 19.52                    | 19.27                     | 21                        | 3           |  |                           |             |  |
| Channel         |            |         |           | 131922                   | 132222                   | 132522                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1715.5                   | 1745                     | 1775                      |                           |             |  |                           |             |  |
| 10              | QPSK       | 1       | 0         | 22.46                    | 22.40                    | 22.29                     |                           |             |  | 24                        | 0           |  |
| 10              | QPSK       | 1       | 25        | 22.63                    | 22.56                    | 22.41                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 1       | 49        | 22.22                    | 22.17                    | 22.01                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 25      | 0         | 21.51                    | 21.60                    | 21.38                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 25      | 12        | 21.55                    | 21.54                    | 21.34                     | 23                        | 1           |  |                           |             |  |
| 10              | QPSK       | 25      | 25        | 21.49                    | 21.43                    | 21.10                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 50      | 0         | 21.51                    | 21.52                    | 21.16                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 1       | 0         | 21.84                    | 21.75                    | 21.65                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 21.97                    | 21.98                    | 21.74                     | 23                        | 1           |  |                           |             |  |
| 10              | 16QAM      | 1       | 49        | 21.63                    | 21.49                    | 21.25                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 0         | 20.59                    | 20.60                    | 20.43                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 20.60                    | 20.62                    | 20.42                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 20.51                    | 20.45                    | 20.21                     | 22                        | 2           |  |                           |             |  |
| 10              | 16QAM      | 50      | 0         | 20.56                    | 20.55                    | 20.30                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 0         | 20.72                    | 20.73                    | 20.49                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 25        | 20.82                    | 20.92                    | 20.64                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 49        | 20.46                    | 20.42                    | 20.13                     | 22                        | 2           |  |                           |             |  |
| 10              | 64QAM      | 25      | 0         | 19.60                    | 19.56                    | 19.37                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 25      | 12        | 19.57                    | 19.60                    | 19.42                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 25      | 25        | 19.51                    | 19.43                    | 19.18                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 50      | 0         | 19.57                    | 19.51                    | 19.26                     | 21                        | 3           |  |                           |             |  |
| Channel         |            |         |           | 131997                   | 132322                   | 132647                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                     | 1777.5                    |                           |             |  |                           |             |  |
| 5               | QPSK       | 1       | 0         | 22.46                    | 22.40                    | 22.29                     |                           |             |  | 24                        | 0           |  |
| 5               | QPSK       | 1       | 12        | 22.58                    | 22.61                    | 22.42                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 1       | 24        | 22.27                    | 22.14                    | 22.05                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 12      | 0         | 21.54                    | 21.56                    | 21.32                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 12      | 7         | 21.51                    | 21.57                    | 21.33                     | 23                        | 1           |  |                           |             |  |
| 5               | QPSK       | 12      | 13        | 21.49                    | 21.44                    | 21.21                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 25      | 0         | 21.55                    | 21.57                    | 21.22                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 21.81                    | 21.71                    | 21.60                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 21.93                    | 21.94                    | 21.78                     | 23                        | 1           |  |                           |             |  |
| 5               | 16QAM      | 1       | 24        | 21.62                    | 21.49                    | 21.30                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 20.59                    | 20.61                    | 20.38                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 20.58                    | 20.46                    | 20.19                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 25      | 0         | 20.60                    | 20.60                    | 20.27                     | 22                        | 2           |  |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 20.67                    | 20.74                    | 20.46                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 1       | 12        | 20.83                    | 20.87                    | 20.58                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 1       | 24        | 20.50                    | 20.41                    | 20.15                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 12      | 7         | 19.60                    | 19.59                    | 19.42                     | 22                        | 2           |  |                           |             |  |
| 5               | 64QAM      | 12      | 13        | 19.60                    | 19.59                    | 19.45                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 19.58                    | 19.49                    | 19.15                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 19.59                    | 19.50                    | 19.27                     |                           |             |  |                           |             |  |
| Channel         |            |         |           | 131987                   | 132322                   | 132657                    | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |                           |             |  |
| Frequency (MHz) |            |         |           | 1711.5                   | 1745                     | 1778.5                    |                           |             |  |                           |             |  |
| 3               | QPSK       | 1       | 0         | 22.46                    | 22.43                    | 22.30                     | 24                        | 0           |  |                           |             |  |
| 3               | QPSK       | 1       | 8         | 22.57                    | 22.61                    | 22.25                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 1       | 14        | 22.28                    | 22.13                    | 22.05                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 8       | 0         | 21.49                    | 21.54                    | 21.33                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 8       | 7         | 21.52                    | 21.51                    | 21.32                     | 23                        | 1           |  |                           |             |  |
| 3               | QPSK       | 8       | 7         | 21.42                    | 21.40                    | 21.10                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 15      | 0         | 21.50                    | 21.56                    | 21.17                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 1       | 0         | 21.85                    | 21.82                    | 21.66                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 1       | 8         | 21.99                    | 21.96                    | 21.72                     | 23                        | 1           |  |                           |             |  |
| 3               | 16QAM      | 1       | 14        | 21.62                    | 21.51                    | 21.31                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 8       | 0         | 20.60                    | 20.62                    | 20.43                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 20.59                    | 20.59                    | 20.36                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 20.53                    | 20.50                    | 20.16                     | 22                        | 2           |  |                           |             |  |
| 3               | 16QAM      | 15      | 0         | 20.54                    | 20.60                    | 20.31                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 0         | 20.72                    | 20.72                    | 20.46                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 8         | 20.85                    | 20.90                    | 20.59                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 14        | 20.49                    | 20.49                    | 20.12                     | 22                        | 2           |  |                           |             |  |
| 3               | 64QAM      | 8       | 0         | 19.65                    | 19.56                    | 19.36                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 8       | 4         | 19.57                    | 19.63                    | 19.39                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 8       | 7         | 19.55                    | 19.44                    | 19.18                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 15      | 0         | 19.54                    | 19.51                    | 19.26                     | 21                        | 3           |  |                           |             |  |
| Channel         |            |         |           | 131979                   | 132322                   | 132666                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1710.5                   | 1745                     | 1779.5                    |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 1       | 0         | 22.49                    | 22.40                    | 22.30                     |                           |             |  | 24                        | 0           |  |
| 1.4             | QPSK       | 1       | 3         | 22.56                    | 22.56                    | 22.38                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 1       | 5         | 22.24                    | 22.14                    | 22.01                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 3       | 0         | 22.42                    | 22.31                    | 22.24                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 3       | 1         | 22.50                    | 22.48                    | 22.28                     | 23                        | 1           |  |                           |             |  |
| 1.4             | QPSK       | 3       | 3         | 22.14                    | 22.08                    | 22.05                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 6       | 0         | 21.51                    | 21.51                    | 21.19                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 0         | 21.84                    | 21.81                    | 21.66                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 3         | 21.98                    | 21.98                    | 21.73                     | 23                        | 1           |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 5         | 21.62                    | 21.49                    | 21.25                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 0         | 21.84                    | 21.74                    | 21.73                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 1         | 21.88                    | 21.98                    | 21.76                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 3         | 21.57                    | 21.57                    | 21.26                     | 22                        | 2           |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 0         | 20.60                    | 20.60                    | 20.29                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 0         | 20.66                    | 20.75                    | 20.50                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 3         | 20.65                    | 20.87                    | 20.57                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 5         | 20.44                    | 20.45                    | 20.15                     | 22                        | 2           |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 0         | 20.72                    | 20.72                    | 20.45                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 1         | 20.86                    | 20.92                    | 20.61                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 3         | 20.44                    | 20.45                    | 20.16                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 6       | 0         | 19.55                    | 19.54                    | 19.27                     | 21                        | 3           |  |                           |             |  |

| Band 38         |            |         |           |                             |                                |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|-------------|--|
| 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         |            |         |           | 37850                       | 38000                          | 38150                        |                        |             |  |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                        |             |  |
| 20              | QPSK       | 1       | 0         | 22.45                       | 22.48                          | 22.56                        |                        |             |  |
| 20              | QPSK       | 1       | 49        | 22.91                       | 22.96                          | 22.95                        | 24                     | 0           |  |
| 20              | QPSK       | 1       | 99        | 22.56                       | 22.60                          | 22.73                        |                        |             |  |
| 20              | QPSK       | 50      | 0         | 21.70                       | 21.76                          | 21.75                        |                        |             |  |
| 20              | QPSK       | 50      | 24        | 21.64                       | 21.71                          | 21.70                        | 23                     | 1           |  |
| 20              | QPSK       | 50      | 50        | 21.89                       | 21.70                          | 21.75                        |                        |             |  |
| 20              | QPSK       | 100     | 0         | 21.67                       | 21.75                          | 21.72                        |                        |             |  |
| 20              | 16QAM      | 1       | 0         | 21.50                       | 21.54                          | 21.62                        | 23                     | 1           |  |
| 20              | 16QAM      | 1       | 49        | 21.94                       | 22.03                          | 22.03                        |                        |             |  |
| 20              | 16QAM      | 1       | 99        | 21.63                       | 21.72                          | 21.80                        |                        |             |  |
| 20              | 16QAM      | 50      | 0         | 20.62                       | 20.67                          | 20.77                        | 22                     | 2           |  |
| 20              | 16QAM      | 50      | 24        | 20.70                       | 20.73                          | 20.82                        |                        |             |  |
| 20              | 16QAM      | 50      | 50        | 20.73                       | 20.75                          | 20.84                        |                        |             |  |
| 20              | 16QAM      | 100     | 0         | 20.68                       | 20.67                          | 20.83                        | 22                     | 2           |  |
| 20              | 64QAM      | 1       | 0         | 20.30                       | 20.34                          | 20.43                        |                        |             |  |
| 20              | 64QAM      | 1       | 49        | 20.74                       | 20.76                          | 20.78                        |                        |             |  |
| 20              | 64QAM      | 1       | 99        | 20.39                       | 20.49                          | 20.55                        | 21                     | 3           |  |
| 20              | 64QAM      | 50      | 0         | 19.69                       | 19.64                          | 19.75                        |                        |             |  |
| 20              | 64QAM      | 50      | 24        | 19.64                       | 19.71                          | 19.81                        |                        |             |  |
| 20              | 64QAM      | 50      | 50        | 19.71                       | 19.73                          | 19.83                        | 20                     |             |  |
| 20              | 64QAM      | 100     | 0         | 19.68                       | 19.72                          | 19.84                        |                        |             |  |
| Channel         |            |         |           | 37825                       | 38000                          | 38175                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                        |             |  |
| 15              | QPSK       | 1       | 0         | 22.36                       | 22.38                          | 22.53                        |                        | 24          |  |
| 15              | QPSK       | 1       | 37        | 22.83                       | 22.92                          | 22.90                        |                        |             |  |
| 15              | QPSK       | 1       | 74        | 22.51                       | 22.55                          | 22.65                        |                        |             |  |
| 15              | QPSK       | 36      | 0         | 21.67                       | 21.69                          | 21.71                        | 23                     | 1           |  |
| 15              | QPSK       | 36      | 20        | 21.61                       | 21.63                          | 21.66                        |                        |             |  |
| 15              | QPSK       | 36      | 39        | 21.59                       | 21.63                          | 21.66                        |                        |             |  |
| 15              | QPSK       | 75      | 0         | 21.58                       | 21.67                          | 21.63                        | 23                     | 1           |  |
| 15              | 16QAM      | 1       | 0         | 21.41                       | 21.45                          | 21.57                        |                        |             |  |
| 15              | 16QAM      | 1       | 37        | 21.91                       | 21.97                          | 21.93                        |                        |             |  |
| 15              | 16QAM      | 1       | 74        | 21.53                       | 21.67                          | 21.75                        | 22                     | 2           |  |
| 15              | 16QAM      | 36      | 0         | 20.58                       | 20.61                          | 20.71                        |                        |             |  |
| 15              | 16QAM      | 36      | 20        | 20.62                       | 20.68                          | 20.76                        |                        |             |  |
| 15              | 16QAM      | 36      | 39        | 20.69                       | 20.70                          | 20.79                        | 22                     | 2           |  |
| 15              | 16QAM      | 75      | 0         | 20.65                       | 20.64                          | 20.75                        |                        |             |  |
| 15              | 64QAM      | 1       | 0         | 20.23                       | 20.25                          | 20.37                        |                        |             |  |
| 15              | 64QAM      | 1       | 37        | 20.71                       | 20.67                          | 20.70                        | 22                     | 2           |  |
| 15              | 64QAM      | 1       | 74        | 20.36                       | 20.43                          | 20.45                        |                        |             |  |
| 15              | 64QAM      | 36      | 0         | 19.53                       | 19.56                          | 19.70                        |                        |             |  |
| 15              | 64QAM      | 36      | 20        | 19.55                       | 19.66                          | 19.76                        | 21                     | 3           |  |
| 15              | 64QAM      | 36      | 39        | 19.66                       | 19.70                          | 19.80                        |                        |             |  |
| 15              | 64QAM      | 75      | 0         | 19.59                       | 19.63                          | 19.79                        |                        |             |  |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                        |             |  |
| 10              | QPSK       | 1       | 0         | 22.41                       | 22.36                          | 22.52                        |                        | 24          |  |
| 10              | QPSK       | 1       | 25        | 22.62                       | 22.89                          | 22.85                        |                        |             |  |
| 10              | QPSK       | 1       | 49        | 22.47                       | 22.51                          | 22.66                        |                        |             |  |
| 10              | QPSK       | 25      | 0         | 21.60                       | 21.68                          | 21.68                        | 23                     | 1           |  |
| 10              | QPSK       | 25      | 12        | 21.56                       | 21.68                          | 21.64                        |                        |             |  |
| 10              | QPSK       | 25      | 25        | 21.66                       | 21.67                          | 21.69                        |                        |             |  |
| 10              | QPSK       | 50      | 0         | 21.61                       | 21.68                          | 21.66                        | 23                     | 1           |  |
| 10              | 16QAM      | 1       | 0         | 21.42                       | 21.45                          | 21.57                        |                        |             |  |
| 10              | 16QAM      | 1       | 25        | 21.89                       | 21.94                          | 21.93                        |                        |             |  |
| 10              | 16QAM      | 1       | 49        | 21.60                       | 21.65                          | 21.77                        | 22                     | 2           |  |
| 10              | 16QAM      | 25      | 0         | 20.53                       | 20.59                          | 20.68                        |                        |             |  |
| 10              | 16QAM      | 25      | 12        | 20.65                       | 20.67                          | 20.73                        |                        |             |  |
| 10              | 16QAM      | 25      | 25        | 20.70                       | 20.68                          | 20.77                        | 22                     | 2           |  |
| 10              | 16QAM      | 50      | 0         | 20.64                       | 20.61                          | 20.78                        |                        |             |  |
| 10              | 64QAM      | 1       | 0         | 20.27                       | 20.30                          | 20.37                        |                        |             |  |
| 10              | 64QAM      | 1       | 25        | 20.67                       | 20.70                          | 20.73                        | 22                     | 2           |  |
| 10              | 64QAM      | 1       | 49        | 20.36                       | 20.41                          | 20.49                        |                        |             |  |
| 10              | 64QAM      | 25      | 0         | 19.49                       | 19.59                          | 19.67                        |                        |             |  |
| 10              | 64QAM      | 25      | 12        | 19.55                       | 19.68                          | 19.76                        | 21                     | 3           |  |
| 10              | 64QAM      | 25      | 25        | 19.63                       | 19.70                          | 19.77                        |                        |             |  |
| 10              | 64QAM      | 50      | 0         | 19.61                       | 19.64                          | 19.74                        |                        |             |  |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                        |             |  |
| 5               | QPSK       | 1       | 0         | 22.36                       | 22.39                          | 22.51                        |                        | 24          |  |
| 5               | QPSK       | 1       | 12        | 22.88                       | 22.90                          | 22.86                        |                        |             |  |
| 5               | QPSK       | 1       | 24        | 22.47                       | 22.53                          | 22.70                        |                        |             |  |
| 5               | QPSK       | 12      | 0         | 21.66                       | 21.71                          | 21.71                        | 23                     | 1           |  |
| 5               | QPSK       | 12      | 7         | 21.58                       | 21.63                          | 21.60                        |                        |             |  |
| 5               | QPSK       | 12      | 13        | 21.61                       | 21.67                          | 21.70                        |                        |             |  |
| 5               | QPSK       | 25      | 0         | 21.58                       | 21.72                          | 21.63                        | 23                     | 1           |  |
| 5               | 16QAM      | 1       | 0         | 21.47                       | 21.49                          | 21.55                        |                        |             |  |
| 5               | 16QAM      | 1       | 12        | 21.85                       | 21.95                          | 21.97                        |                        |             |  |
| 5               | 16QAM      | 1       | 24        | 21.60                       | 21.66                          | 21.76                        | 22                     | 2           |  |
| 5               | 16QAM      | 12      | 0         | 20.53                       | 20.59                          | 20.70                        |                        |             |  |
| 5               | 16QAM      | 12      | 7         | 20.60                       | 20.64                          | 20.77                        |                        |             |  |
| 5               | 16QAM      | 12      | 13        | 20.68                       | 20.72                          | 20.75                        | 22                     | 2           |  |
| 5               | 16QAM      | 25      | 0         | 20.62                       | 20.58                          | 20.76                        |                        |             |  |
| 5               | 64QAM      | 1       | 0         | 20.23                       | 20.24                          | 20.36                        |                        |             |  |
| 5               | 64QAM      | 1       | 12        | 20.69                       | 20.69                          | 20.75                        | 22                     | 2           |  |
| 5               | 64QAM      | 1       | 24        | 20.34                       | 20.44                          | 20.52                        |                        |             |  |
| 5               | 64QAM      | 12      | 0         | 19.54                       | 19.57                          | 19.71                        |                        |             |  |
| 5               | 64QAM      | 12      | 7         | 19.57                       | 19.65                          | 19.77                        | 21                     | 3           |  |
| 5               | 64QAM      | 12      | 13        | 19.66                       | 19.68                          | 19.74                        |                        |             |  |
| 5               | 64QAM      | 25      | 0         | 19.59                       | 19.64                          | 19.76                        |                        |             |  |

### Reduced Power for Sensor on

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| Frequency (MHz) |                           |       |       |                     |                           |       |       |                     |
| GSM 1 Tx slot   | 31.86                     | 32.05 | 31.89 | 33.00               | 22.86                     | 23.05 | 22.89 | 24.00               |
| GPRS 1 Tx slot  | 31.83                     | 32.00 | 31.88 | 33.00               | 22.83                     | 23.00 | 22.88 | 24.00               |
| GPRS 2 Tx slots | 31.08                     | 31.07 | 31.01 | 32.00               | 25.08                     | 25.07 | 25.01 | 26.00               |
| GPRS 3 Tx slots | 29.15                     | 29.34 | 29.30 | 30.50               | 24.89                     | 25.08 | 25.04 | 26.24               |
| GPRS 4 Tx slots | 28.15                     | 28.16 | 28.13 | 29.50               | 23.15                     | 23.13 | 23.13 | 26.50               |
| EDGE 1 Tx slot  | 28.39                     | 28.31 | 28.37 | 27.50               | 17.39                     | 17.31 | 17.37 | 18.50               |
| EDGE 2 Tx slots | 25.29                     | 25.22 | 25.26 | 26.00               | 19.29                     | 19.22 | 19.26 | 20.00               |
| EDGE 3 Tx slots | 23.27                     | 23.06 | 23.05 | 24.00               | 19.01                     | 18.80 | 18.79 | 19.74               |
| EDGE 4 Tx slots | 22.00                     | 21.90 | 21.89 | 22.50               | 19.00                     | 18.90 | 18.89 | 19.50               |

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| TX Channel      | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| Frequency (MHz) |                           |       |        |                     |                           |       |        |                     |
| GSM 1 Tx slot   | 25.22                     | 25.20 | 25.48  | 26.50               | 16.22                     | 16.20 | 16.48  | 17.50               |
| GPRS 1 Tx slot  | 25.20                     | 25.15 | 25.47  | 26.50               | 16.20                     | 16.15 | 16.47  | 17.50               |
| GPRS 2 Tx slots | 24.52                     | 24.59 | 24.70  | 26.00               | 18.52                     | 18.59 | 18.70  | 20.00               |
| GPRS 3 Tx slots | 22.82                     | 22.79 | 22.97  | 24.00               | 18.56                     | 18.53 | 18.71  | 19.74               |
| GPRS 4 Tx slots | 21.66                     | 21.69 | 21.91  | 23.00               | 18.66                     | 18.69 | 18.91  | 20.00               |
| EDGE 1 Tx slot  | 21.80                     | 21.70 | 21.76  | 22.50               | 12.80                     | 12.70 | 12.76  | 13.50               |
| EDGE 2 Tx slots | 20.91                     | 20.79 | 20.85  | 21.50               | 14.91                     | 14.79 | 14.85  | 15.50               |
| EDGE 3 Tx slots | 18.90                     | 18.80 | 18.75  | 20.00               | 14.64                     | 14.54 | 14.49  | 15.74               |
| EDGE 4 Tx slots | 17.91                     | 17.77 | 17.80  | 19.00               | 14.91                     | 14.77 | 14.80  | 16.00               |

| Band            | WCDMA II                |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |       |
|-----------------|-------------------------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|-------|
|                 | TX Channel              | 9262  | 9400   |                     | 9538     | 1312   | 1413   |                     | 1513    | 4132  | 4182  |                     | 4233  |
| RX Channel      | 9662                    | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |       |
| Frequency (MHz) | 1852.4                  | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.6 |                     | 826.4   | 836.4 | 846.6 |                     |       |
| 3GPP Rel 99     | AMR 12.2kbps            | 15.19 | 15.17  | 15.18               | 17.00    | 13.09  | 12.93  | 12.84               | 14.50   | 22.35 | 22.39 | 22.37               | 24.00 |
| 3GPP Rel 99     | RMC 12.2kbps            | 15.22 | 15.20  | 15.23               | 17.00    | 13.10  | 12.96  | 12.94               | 14.50   | 22.37 | 22.40 | 22.38               | 24.00 |
| 3GPP Rel 6      | HSDPA Subtest-1         | 14.23 | 14.18  | 14.28               | 16.00    | 12.19  | 12.03  | 11.72               | 13.50   | 21.45 | 21.45 | 21.51               | 23.00 |
| 3GPP Rel 6      | HSDPA Subtest-2         | 14.24 | 14.14  | 14.04               | 16.00    | 12.13  | 11.85  | 11.90               | 13.50   | 21.41 | 21.33 | 21.36               | 23.00 |
| 3GPP Rel 6      | HSDPA Subtest-3         | 13.64 | 13.63  | 13.79               | 15.50    | 11.61  | 11.52  | 11.32               | 13.00   | 20.93 | 20.86 | 20.89               | 22.50 |
| 3GPP Rel 6      | HSDPA Subtest-4         | 13.70 | 13.66  | 13.68               | 15.50    | 11.60  | 11.48  | 11.32               | 13.00   | 20.90 | 20.81 | 20.84               | 22.50 |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 14.23 | 14.18  | 14.13               | 16.00    | 12.14  | 11.73  | 11.56               | 13.50   | 21.38 | 21.34 | 21.43               | 23.00 |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 14.19 | 14.16  | 14.18               | 16.00    | 12.15  | 11.84  | 11.70               | 13.50   | 21.30 | 21.19 | 21.26               | 23.00 |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 13.64 | 13.57  | 13.62               | 15.50    | 11.48  | 11.30  | 11.31               | 13.00   | 20.86 | 20.72 | 20.82               | 22.50 |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 13.67 | 13.60  | 13.66               | 15.50    | 11.55  | 11.33  | 11.23               | 13.00   | 20.81 | 20.72 | 20.69               | 22.50 |
| 3GPP Rel 6      | HSUPA Subtest-1         | 12.27 | 12.20  | 12.34               | 14.00    | 10.10  | 10.01  | 9.89                | 11.50   | 19.48 | 19.46 | 19.50               | 21.00 |
| 3GPP Rel 6      | HSUPA Subtest-2         | 12.28 | 12.23  | 12.31               | 14.00    | 10.11  | 10.02  | 9.88                | 11.50   | 19.49 | 19.46 | 19.42               | 21.00 |
| 3GPP Rel 6      | HSUPA Subtest-3         | 12.99 | 13.07  | 13.18               | 14.50    | 11.25  | 11.04  | 11.03               | 12.00   | 20.50 | 20.46 | 20.48               | 21.50 |
| 3GPP Rel 6      | HSUPA Subtest-4         | 12.04 | 12.08  | 12.07               | 13.50    | 9.78   | 9.50   | 9.57                | 11.00   | 19.17 | 19.20 | 19.22               | 20.50 |
| 3GPP Rel 6      | HSUPA Subtest-5         | 13.00 | 12.98  | 13.00               | 14.50    | 11.09  | 10.91  | 10.89               | 12.00   | 20.50 | 20.40 | 20.30               | 21.50 |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 12.71 | 12.65  | 12.75               | 14.00    | 10.77  | 10.64  | 10.70               | 11.50   | 20.01 | 20.05 | 20.00               | 21.00 |

| Band 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) |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 15.28                 | 15.35                    | 15.30                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 15.50                 | 15.52                    | 15.37                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 15.30                 | 15.32                    | 15.27                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 15.26                 | 15.32                    | 15.15                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 15.17                 | 15.10                    | 15.15                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 15.30                 | 15.19                    | 15.17                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 15.16                 | 15.20                    | 15.15                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.31                 | 15.19                    | 15.14                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 15.26                 | 15.11                    | 15.14                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 15.24                 | 15.18                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 15.25                 | 15.28                    | 15.08                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 15.11                 | 15.21                    | 15.07                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 15.25                 | 15.10                    | 15.20                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 15.14                 | 15.10                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.16                 | 15.12                    | 15.00                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 15.24                 | 15.14                    | 15.10                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 15.22                 | 15.22                    | 15.18                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 15.30                 | 15.15                    | 15.03                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 15.16                 | 15.10                    | 15.12                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 15.17                 | 15.20                    | 15.26                  |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 15.26                 | 15.05                    | 15.04                  |                     |          |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 15.20                 | 15.20                    | 15.07                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 15.17                 | 15.25                    | 15.12                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 15.17                 | 15.22                    | 15.15                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 15.17                 | 15.22                    | 15.16                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 15.19                 | 15.19                    | 15.17                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 15.13                 | 15.16                    | 15.14                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 15.24                 | 15.10                    | 15.05                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 15.22                 | 15.13                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 15.24                 | 15.09                    | 15.03                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 15.23                 | 15.16                    | 15.17                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 15.20                 | 15.22                    | 15.24                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 15.05                 | 15.16                    | 15.02                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 15.04                 | 15.25                    | 15.06                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 15.11                 | 15.27                    | 15.15                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 15.19                 | 15.11                    | 15.16                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 15.12                 | 15.07                    | 15.14                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 15.23                 | 15.27                    | 15.27                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 15.09                 | 15.20                    | 15.06                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 15.07                 | 15.25                    | 15.09                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 15.14                 | 15.15                    | 15.18                  |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 15.03                 | 15.09                    | 15.00                  |                     |          |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 15.14                 | 15.06                    | 15.15                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 15.26                 | 15.10                    | 15.10                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 15.27                 | 15.04                    | 15.14                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 15.25                 | 15.22                    | 15.12                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 15.23                 | 15.15                    | 15.20                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 15.30                 | 15.16                    | 15.09                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 15.13                 | 15.19                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 15.17                 | 15.16                    | 15.09                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 15.23                 | 15.10                    | 15.14                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 15.10                 | 15.13                    | 15.12                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 15.10                 | 15.29                    | 15.14                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 15.06                 | 15.13                    | 15.03                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 15.14                 | 15.15                    | 15.16                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 15.17                 | 15.11                    | 15.21                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 15.06                 | 15.20                    | 15.03                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 15.02                 | 15.23                    | 15.04                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 15.05                 | 15.24                    | 15.09                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 15.08                 | 15.13                    | 15.03                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 15.09                 | 15.18                    | 15.11                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 15.14                 | 15.13                    | 15.18                  |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 15.01                 | 15.07                    | 15.00                  |                     |          |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 15.19                 | 15.25                    | 15.05                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 15.21                 | 15.18                    | 15.13                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 15.14                 | 15.14                    | 15.12                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 15.20                 | 15.06                    | 15.02                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 15.32                 | 15.23                    | 15.09                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 15.27                 | 15.10                    | 15.16                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 15.23                 | 15.15                    | 15.18                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 15.29                 | 15.21                    | 15.08                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 15.18                 | 15.07                    | 15.14                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 15.25                 | 15.13                    | 15.15                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 15.04                 | 15.10                    | 15.08                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 15.07                 | 15.10                    | 15.04                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 15.09                 | 15.23                    | 15.11                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 15.05                 | 15.15                    | 15.09                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 15.08                 | 15.09                    | 15.05                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 15.03                 | 15.16                    | 15.05                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 15.15                 | 15.10                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 15.17                 | 15.09                    | 15.14                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 15.17                 | 15.25                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 15.15                 | 15.10                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 15.03                 | 15.22                    | 15.00                  |                     |          |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 15.21                 | 15.14                    | 15.15                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 15.31                 | 15.28                    | 15.22                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 15.17                 | 15.08                    | 15.00                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 15.20                 | 15.11                    | 15.12                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 15.29                 | 15.10                    | 15.17                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 15.21                 | 15.08                    | 15.01                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 15.25                 | 15.23                    | 15.09                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 15.33                 | 15.16                    | 15.10                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 15.13                 | 15.17                    | 15.08                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 15.25                 | 15.23                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 15.12                 | 15.19                    | 15.16                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 15.01                 | 15.16                    | 15.00                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 15.03                 | 15.12                    | 15.05                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 15.14                 | 15.27                    | 15.18                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 15.05                 | 15.14                    | 15.02                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 15.15                 | 15.17                    | 15.17                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 15.19                 | 15.15                    | 15.23                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 15.14                 | 15.11                    | 15.11                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 15.09                 | 15.07                    | 15.11                  |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 15.15                 | 15.22                    | 15.19                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 15.12                 | 15.22                    | 15.09                  |                     |          |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 15.23                 | 15.21                    | 15.17                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 15.26                 | 15.25                    | 15.25                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 15.25                 | 15.14                    | 15.20                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 15.26                 | 15.15                    | 15.20                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 15.17                 | 15.11                    | 15.16                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 15.25                 | 15.14                    | 15.00                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 15.15                 | 15.17                    | 15.17                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 15.26                 | 15.16                    | 15.08                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 15.13                 | 15.03                    | 15.06                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 15.22                 | 15.22                    | 15.19                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 15.16                 | 15.14                    | 15.20                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 15.12                 | 15.21                    | 15.09                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 15.14                 | 15.17                    | 15.16                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 15.19                 | 15.16                    | 15.23                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 15.14                 | 15.03                    | 15.11                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 15.15                 | 15.13                    | 15.17                  | 17                  | 0        |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 15.07                 | 15.12                    | 15.11                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 15.15                 | 15.02                    | 15.12                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 15.01                 | 15.16                    | 15.03                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 15.23                 | 15.22                    | 15.27                  |                     |          |  |  |  |  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 15.06                 | 15.03                    | 15.03                  | 17                  | 0        |  |  |  |  |  |  |  |  |

| Band 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         |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |
| 20              | QPSK       | 1       | 0         | 12.41                 | 12.45                    | 12.47                  | 13.5                | 0        |  |
| 20              | QPSK       | 1       | 49        | 12.58                 | 12.66                    | 12.75                  |                     |          |  |
| 20              | QPSK       | 1       | 99        | 12.45                 | 12.53                    | 12.63                  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 12.49                 | 12.52                    | 12.66                  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 12.46                 | 12.47                    | 12.50                  | 13.5                | 0        |  |
| 20              | QPSK       | 50      | 50        | 12.27                 | 12.40                    | 12.63                  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 12.43                 | 12.51                    | 12.60                  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 12.27                 | 12.32                    | 12.75                  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 12.30                 | 12.34                    | 12.62                  | 13.5                | 0        |  |
| 20              | 16QAM      | 1       | 99        | 12.49                 | 12.52                    | 12.58                  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 12.51                 | 12.56                    | 12.51                  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 12.49                 | 12.54                    | 12.54                  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 12.60                 | 12.44                    | 12.63                  | 13.5                | 0        |  |
| 20              | 16QAM      | 100     | 0         | 12.51                 | 12.38                    | 12.77                  |                     |          |  |
| 20              | 64QAM      | 1       | 0         | 12.38                 | 12.46                    | 12.51                  |                     |          |  |
| 20              | 64QAM      | 1       | 49        | 12.38                 | 12.54                    | 12.66                  |                     |          |  |
| 20              | 64QAM      | 1       | 99        | 12.58                 | 12.56                    | 12.74                  | 13.5                | 0        |  |
| 20              | 64QAM      | 50      | 0         | 12.33                 | 12.58                    | 12.53                  |                     |          |  |
| 20              | 64QAM      | 50      | 24        | 12.42                 | 12.47                    | 12.54                  |                     |          |  |
| 20              | 64QAM      | 50      | 50        | 12.34                 | 12.33                    | 12.61                  |                     |          |  |
| 20              | 64QAM      | 100     | 0         | 12.35                 | 12.51                    | 12.59                  |                     |          |  |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dbm) | MPR (db) |  |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |
| 15              | QPSK       | 1       | 0         | 12.40                 | 12.51                    | 12.52                  | 13.5                | 0        |  |
| 15              | QPSK       | 1       | 37        | 12.44                 | 12.64                    | 12.76                  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 12.42                 | 12.63                    | 12.57                  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 12.46                 | 12.43                    | 12.85                  |                     |          |  |
| 15              | QPSK       | 36      | 20        | 12.32                 | 12.47                    | 12.44                  | 13.5                | 0        |  |
| 15              | QPSK       | 36      | 39        | 12.22                 | 12.33                    | 12.58                  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 12.30                 | 12.57                    | 12.55                  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 12.14                 | 12.26                    | 12.80                  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 12.21                 | 12.34                    | 12.72                  | 13.5                | 0        |  |
| 15              | 16QAM      | 1       | 74        | 12.36                 | 12.62                    | 12.54                  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 12.47                 | 12.50                    | 12.47                  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 12.42                 | 12.63                    | 12.47                  |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 12.67                 | 12.41                    | 12.70                  | 13.5                | 0        |  |
| 15              | 16QAM      | 75      | 0         | 12.57                 | 12.31                    | 12.83                  |                     |          |  |
| 15              | 64QAM      | 1       | 0         | 12.40                 | 12.54                    | 12.53                  |                     |          |  |
| 15              | 64QAM      | 1       | 37        | 12.38                 | 12.46                    | 12.66                  |                     |          |  |
| 15              | 64QAM      | 1       | 74        | 12.53                 | 12.50                    | 12.69                  | 13.5                | 0        |  |
| 15              | 64QAM      | 36      | 0         | 12.25                 | 12.58                    | 12.45                  |                     |          |  |
| 15              | 64QAM      | 36      | 20        | 12.49                 | 12.51                    | 12.61                  |                     |          |  |
| 15              | 64QAM      | 36      | 39        | 12.31                 | 12.33                    | 12.58                  |                     |          |  |
| 15              | 64QAM      | 75      | 0         | 12.34                 | 12.46                    | 12.58                  |                     |          |  |
| Channel         |            |         |           | 20830                 | 21100                    | 21400                  | Tune-up limit (dbm) | MPR (db) |  |
| Frequency (MHz) |            |         |           | 2506                  | 2535                     | 2565                   |                     |          |  |
| 10              | QPSK       | 1       | 0         | 12.38                 | 12.54                    | 12.57                  | 13.5                | 0        |  |
| 10              | QPSK       | 1       | 25        | 12.47                 | 12.75                    | 12.81                  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 12.28                 | 12.47                    | 12.58                  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 12.48                 | 12.59                    | 12.72                  |                     |          |  |
| 10              | QPSK       | 25      | 12        | 12.32                 | 12.40                    | 12.43                  | 13.5                | 0        |  |
| 10              | QPSK       | 25      | 25        | 12.16                 | 12.47                    | 12.54                  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 12.33                 | 12.58                    | 12.61                  |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 12.25                 | 12.39                    | 12.82                  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 12.27                 | 12.40                    | 12.57                  | 13.5                | 0        |  |
| 10              | 16QAM      | 1       | 49        | 12.47                 | 12.48                    | 12.64                  |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 12.46                 | 12.60                    | 12.46                  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 12.42                 | 12.46                    | 12.47                  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 12.55                 | 12.48                    | 12.58                  | 13.5                | 0        |  |
| 10              | 16QAM      | 50      | 0         | 12.43                 | 12.38                    | 12.69                  |                     |          |  |
| 10              | 64QAM      | 1       | 0         | 12.39                 | 12.47                    | 12.52                  |                     |          |  |
| 10              | 64QAM      | 1       | 25        | 12.40                 | 12.57                    | 12.68                  |                     |          |  |
| 10              | 64QAM      | 1       | 49        | 12.56                 | 12.59                    | 12.72                  | 13.5                | 0        |  |
| 10              | 64QAM      | 25      | 0         | 12.29                 | 12.52                    | 12.46                  |                     |          |  |
| 10              | 64QAM      | 25      | 12        | 12.45                 | 12.44                    | 12.57                  |                     |          |  |
| 10              | 64QAM      | 25      | 25        | 12.44                 | 12.32                    | 12.71                  |                     |          |  |
| 10              | 64QAM      | 50      | 0         | 12.29                 | 12.61                    | 12.53                  |                     |          |  |
| Channel         |            |         |           | 20775                 | 21100                    | 21425                  | Tune-up limit (dbm) | MPR (db) |  |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |
| 5               | QPSK       | 1       | 0         | 12.39                 | 12.39                    | 12.49                  | 13.5                | 0        |  |
| 5               | QPSK       | 1       | 12        | 12.54                 | 12.65                    | 12.82                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 12.31                 | 12.57                    | 12.63                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 12.31                 | 12.43                    | 12.70                  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 12.35                 | 12.51                    | 12.60                  | 13.5                | 0        |  |
| 5               | QPSK       | 12      | 13        | 12.26                 | 12.31                    | 12.57                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 12.25                 | 12.61                    | 12.62                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 12.13                 | 12.36                    | 12.82                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 12.14                 | 12.44                    | 12.57                  | 13.5                | 0        |  |
| 5               | 16QAM      | 1       | 24        | 12.33                 | 12.52                    | 12.67                  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 12.55                 | 12.58                    | 12.55                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 12.55                 | 12.48                    | 12.60                  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 12.62                 | 12.42                    | 12.65                  | 13.5                | 0        |  |
| 5               | 16QAM      | 25      | 0         | 12.55                 | 12.36                    | 12.61                  |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 12.43                 | 12.42                    | 12.56                  |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 12.29                 | 12.56                    | 12.57                  |                     |          |  |
| 5               | 64QAM      | 1       | 24        | 12.53                 | 12.54                    | 12.69                  | 13.5                | 0        |  |
| 5               | 64QAM      | 12      | 0         | 12.31                 | 12.57                    | 12.51                  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 12.37                 | 12.47                    | 12.49                  |                     |          |  |
| 5               | 64QAM      | 12      | 13        | 12.33                 | 12.34                    | 12.60                  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 12.27                 | 12.45                    | 12.51                  |                     |          |  |

| Band 13         |            |         |           |                       |                          |                        |                     |          |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|--|
| 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         |            |         |           | 23230                 |                          |                        |                     |          |  |  |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |  |  |
| 10              | QPSK       | 1       | 0         |                       | 22.83                    |                        | 23                  | 1        |  |  |  |
| 10              | QPSK       | 1       | 25        |                       | 22.84                    |                        |                     |          |  |  |  |
| 10              | QPSK       | 1       | 49        |                       | 22.75                    |                        |                     |          |  |  |  |
| 10              | QPSK       | 25      | 0         |                       | 21.80                    |                        |                     |          |  |  |  |
| 10              | QPSK       | 25      | 12        |                       | 21.75                    |                        | 23                  | 1        |  |  |  |
| 10              | QPSK       | 25      | 25        |                       | 21.71                    |                        |                     |          |  |  |  |
| 10              | QPSK       | 50      | 0         |                       | 21.76                    |                        |                     |          |  |  |  |
| 10              | 16QAM      | 1       | 0         |                       | 21.86                    |                        |                     |          |  |  |  |
| 10              | 16QAM      | 1       | 25        |                       | 22.07                    |                        | 23                  | 1        |  |  |  |
| 10              | 16QAM      | 1       | 49        |                       | 22.04                    |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 0         |                       | 20.76                    |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 12        |                       | 20.85                    |                        |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 25        |                       | 20.86                    |                        | 22                  | 2        |  |  |  |
| 10              | 16QAM      | 50      | 0         |                       | 20.81                    |                        |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 0         |                       | 20.85                    |                        |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 25        |                       | 21.05                    |                        |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 49        |                       | 20.98                    |                        | 21                  | 2        |  |  |  |
| 10              | 64QAM      | 25      | 0         |                       | 19.75                    |                        |                     |          |  |  |  |
| 10              | 64QAM      | 25      | 12        |                       | 19.87                    |                        |                     |          |  |  |  |
| 10              | 64QAM      | 25      | 25        |                       | 19.87                    |                        |                     |          |  |  |  |
| 10              | 64QAM      | 50      | 0         |                       | 19.81                    |                        | 21                  | 3        |  |  |  |
| 10              | 64QAM      | 50      | 0         |                       | 19.81                    |                        |                     |          |  |  |  |
| Channel         |            |         |           | 23205                 | 23230                    | 23255                  |                     |          |  |  |  |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |                     |          |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.53                 | 22.53                    | 22.59                  | 24                  | 0        |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.75                 | 22.78                    | 22.81                  |                     |          |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.66                 | 22.66                    | 22.65                  |                     |          |  |  |  |
| 5               | QPSK       | 12      | 0         | 21.77                 | 21.75                    | 21.75                  |                     |          |  |  |  |
| 5               | QPSK       | 12      | 7         | 21.68                 | 21.65                    | 21.67                  | 23                  | 1        |  |  |  |
| 5               | QPSK       | 12      | 13        | 21.62                 | 21.61                    | 21.61                  |                     |          |  |  |  |
| 5               | QPSK       | 25      | 0         | 21.66                 | 21.70                    | 21.72                  |                     |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 21.81                 | 21.76                    | 21.83                  |                     |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 22.04                 | 21.98                    | 22.02                  | 23                  | 1        |  |  |  |
| 5               | 16QAM      | 1       | 24        | 21.96                 | 21.99                    | 21.99                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 20.66                 | 20.68                    | 20.69                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 20.76                 | 20.75                    | 20.76                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 20.81                 | 20.83                    | 20.78                  | 22                  | 2        |  |  |  |
| 5               | 16QAM      | 25      | 0         | 20.71                 | 20.74                    | 20.74                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 0         | 20.77                 | 20.79                    | 20.79                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 12        | 21.02                 | 20.98                    | 21.02                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 24        | 20.92                 | 20.91                    | 20.90                  | 21                  | 3        |  |  |  |
| 5               | 64QAM      | 12      | 0         | 19.72                 | 19.70                    | 19.66                  |                     |          |  |  |  |
| 5               | 64QAM      | 12      | 7         | 19.77                 | 19.84                    | 19.78                  |                     |          |  |  |  |
| 5               | 64QAM      | 12      | 13        | 19.82                 | 19.77                    | 19.79                  |                     |          |  |  |  |
| 5               | 64QAM      | 25      | 0         | 19.74                 | 19.71                    | 19.76                  |                     |          |  |  |  |

| Band 26         |            |         |           |                       |                          |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| 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         |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 21.32                 | 21.37                    | 21.29                  | 23                  | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 21.52                 | 21.42                    | 21.41                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 21.10                 | 21.19                    | 21.36                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 21.43                 | 21.22                    | 21.08                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 21.20                 | 21.22                    | 21.37                  | 23                  | 0        |  |  |
| 15              | QPSK       | 36      | 39        | 21.12                 | 21.16                    | 21.16                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 21.33                 | 21.19                    | 21.19                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 21.43                 | 21.31                    | 21.37                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 21.14                 | 21.06                    | 21.18                  | 23                  | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 21.23                 | 21.10                    | 21.09                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 20.48                 | 20.31                    | 20.40                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 20.31                 | 20.26                    | 20.26                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 39        | 20.30                 | 20.23                    | 20.19                  | 22                  | 1        |  |  |
| 15              | 16QAM      | 75      | 0         | 20.38                 | 20.15                    | 20.26                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 20.67                 | 20.43                    | 20.51                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 20.64                 | 20.60                    | 20.63                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 20.27                 | 20.31                    | 20.48                  | 22                  | 1        |  |  |
| 15              | 64QAM      | 36      | 0         | 19.53                 | 19.32                    | 19.48                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 19.36                 | 19.24                    | 19.34                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 19.43                 | 19.21                    | 19.31                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 19.35                 | 19.33                    | 19.24                  |                     |          |  |  |
| Channel         |            |         |           | 26740                 | 26865                    | 26990                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 21.27                 | 21.17                    | 21.17                  | 23                  | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 21.45                 | 21.25                    | 21.45                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 21.27                 | 21.11                    | 21.23                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 21.05                 | 21.04                    | 21.12                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 21.31                 | 21.13                    | 21.22                  | 23                  | 0        |  |  |
| 10              | QPSK       | 25      | 25        | 21.19                 | 21.09                    | 21.15                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 21.18                 | 21.07                    | 21.13                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 21.34                 | 21.16                    | 21.19                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 21.13                 | 21.13                    | 21.10                  | 23                  | 0        |  |  |
| 10              | 16QAM      | 1       | 49        | 21.15                 | 21.07                    | 21.14                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 20.31                 | 20.21                    | 20.23                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 20.24                 | 20.18                    | 20.19                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 25        | 20.21                 | 20.15                    | 20.10                  | 22                  | 1        |  |  |
| 10              | 16QAM      | 50      | 0         | 20.21                 | 20.01                    | 20.09                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 20.67                 | 20.38                    | 20.51                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 20.54                 | 20.55                    | 20.53                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 20.24                 | 20.22                    | 20.45                  | 22                  | 1        |  |  |
| 10              | 64QAM      | 25      | 0         | 19.40                 | 19.24                    | 19.35                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 12        | 19.35                 | 19.18                    | 19.33                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 19.26                 | 19.08                    | 19.14                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 19.22                 | 19.17                    | 19.11                  | 21                  | 2        |  |  |
| Channel         |            |         |           | 26715                 | 26865                    | 27015                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 21.30                 | 21.10                    | 21.11                  | 23                  | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 21.37                 | 21.39                    | 21.41                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 21.13                 | 21.23                    | 21.28                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 21.14                 | 21.05                    | 21.08                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 21.27                 | 21.17                    | 21.19                  | 23                  | 0        |  |  |
| 5               | QPSK       | 12      | 13        | 21.16                 | 21.05                    | 21.14                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 21.33                 | 21.16                    | 21.14                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 21.24                 | 21.30                    | 21.23                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 12        | 21.16                 | 21.02                    | 21.15                  | 23                  | 0        |  |  |
| 5               | 16QAM      | 1       | 24        | 21.19                 | 21.09                    | 21.14                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 20.33                 | 20.22                    | 20.25                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 7         | 20.31                 | 20.23                    | 20.26                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 13        | 20.19                 | 20.22                    | 20.08                  | 22                  | 1        |  |  |
| 5               | 16QAM      | 25      | 0         | 20.33                 | 20.16                    | 20.21                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 0         | 20.58                 | 20.28                    | 20.42                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 12        | 20.57                 | 20.45                    | 20.56                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 24        | 20.19                 | 20.31                    | 20.40                  | 22                  | 1        |  |  |
| 5               | 64QAM      | 12      | 0         | 19.44                 | 19.30                    | 19.39                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 7         | 19.18                 | 19.07                    | 19.16                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 13        | 19.28                 | 19.08                    | 19.16                  |                     |          |  |  |
| 5               | 64QAM      | 25      | 0         | 19.21                 | 19.20                    | 19.10                  | 21                  | 2        |  |  |
| Channel         |            |         |           | 26705                 | 26865                    | 27025                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 815.5                 | 831.5                    | 847.5                  |                     |          |  |  |
| 3               | QPSK       | 1       | 0         | 21.33                 | 21.14                    | 21.18                  | 23                  | 0        |  |  |
| 3               | QPSK       | 1       | 5         | 21.44                 | 21.30                    | 21.41                  |                     |          |  |  |
| 3               | QPSK       | 1       | 14        | 21.08                 | 21.15                    | 21.14                  |                     |          |  |  |
| 3               | QPSK       | 8       | 0         | 21.09                 | 21.07                    | 21.16                  |                     |          |  |  |
| 3               | QPSK       | 8       | 4         | 21.27                 | 21.07                    | 21.26                  | 23                  | 0        |  |  |
| 3               | QPSK       | 8       | 7         | 21.11                 | 21.10                    | 21.06                  |                     |          |  |  |
| 3               | QPSK       | 15      | 0         | 21.28                 | 21.15                    | 21.09                  |                     |          |  |  |
| 3               | 16QAM      | 1       | 0         | 21.29                 | 21.30                    | 21.25                  |                     |          |  |  |
| 3               | 16QAM      | 1       | 8         | 21.03                 | 21.16                    | 21.05                  | 23                  | 0        |  |  |
| 3               | 16QAM      | 1       | 14        | 21.18                 | 21.05                    | 21.06                  |                     |          |  |  |
| 3               | 16QAM      | 8       | 0         | 20.37                 | 20.18                    | 20.29                  |                     |          |  |  |
| 3               | 16QAM      | 8       | 4         | 20.26                 | 20.07                    | 20.23                  |                     |          |  |  |
| 3               | 16QAM      | 8       | 7         | 20.22                 | 20.16                    | 20.11                  | 22                  | 1        |  |  |
| 3               | 16QAM      | 15      | 0         | 20.27                 | 20.09                    | 20.15                  |                     |          |  |  |
| 3               | 64QAM      | 1       | 0         | 20.59                 | 20.31                    | 20.43                  |                     |          |  |  |
| 3               | 64QAM      | 1       | 8         | 20.48                 | 20.46                    | 20.47                  |                     |          |  |  |
| 3               | 64QAM      | 1       | 14        | 20.08                 | 20.27                    | 20.29                  | 21                  | 2        |  |  |
| 3               | 64QAM      | 8       | 0         | 19.38                 | 19.17                    | 19.33                  |                     |          |  |  |
| 3               | 64QAM      | 8       | 4         | 19.26                 | 19.06                    | 19.24                  |                     |          |  |  |
| 3               | 64QAM      | 8       | 7         | 19.27                 | 19.14                    | 19.15                  |                     |          |  |  |
| 3               | 64QAM      | 15      | 0         | 19.26                 | 19.10                    | 19.15                  | 20                  |          |  |  |
| Channel         |            |         |           | 26697                 | 26865                    | 27033                  | Tune-up limit (dBm) | MPR (dB) |  |  |
| Frequency (MHz) |            |         |           | 814.7                 | 831.5                    | 848.3                  |                     |          |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.30                 | 21.09                    | 21.23                  | 23                  | 0        |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.40                 | 21.39                    | 21.29                  |                     |          |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.15                 | 21.06                    | 21.25                  |                     |          |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.16                 | 21.12                    | 21.02                  |                     |          |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.26                 | 21.14                    | 21.35                  | 23                  | 0        |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.10                 | 21.07                    | 21.06                  |                     |          |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.25                 | 21.02                    | 21.04                  |                     |          |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.39                 | 21.18                    | 21.19                  |                     |          |  |  |
| 1.4             | 16QAM      | 1       | 3         | 21.19                 | 21.21                    | 21.26                  | 23                  | 0        |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.38                 | 21.18                    | 21.20                  |                     |          |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.39                 | 21.13                    | 21.31                  |                     |          |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.23                 | 21.18                    | 21.10                  |                     |          |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.17                 | 21.15                    | 21.06                  | 22                  | 1        |  |  |
| 1.4             | 16QAM      | 6       | 0         | 20.25                 | 20.12                    | 20.13                  |                     |          |  |  |
| 1.4             | 64QAM      | 1       | 0         | 20.64                 | 20.39                    | 20.48                  |                     |          |  |  |
| 1.4             | 64QAM      | 1       | 3         | 20.59                 | 20.54                    | 20.58                  |                     |          |  |  |
| 1.4             | 64QAM      | 1       | 5         | 20.21                 | 20.24                    | 20.42                  | 22                  | 1        |  |  |
| 1.4             | 64QAM      | 3       | 0         | 20.53                 | 20.31                    | 20.48                  |                     |          |  |  |
| 1.4             | 64QAM      | 3       | 1         | 20.17                 | 20.12                    | 20.15                  |                     |          |  |  |
| 1.4             | 64QAM      | 3       | 3         | 20.38                 | 20.15                    | 20.26                  |                     |          |  |  |
| 1.4             | 64QAM      | 6       | 0         | 19.21                 | 19.21                    | 19.10                  | 21                  | 2        |  |  |

| Band 66         |            |         |           |                       |                          |                        |                     |          |  |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|---------------------|----------|--|
| 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         |            |         |           | 132072                | 132322                   | 132572                 |                     |          |  |                     |          |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |          |  |                     |          |  |
| 20              | QPSK       | 1       | 0         | 13.68                 | 13.57                    | 13.62                  | 15                  | 0        |  |                     |          |  |
| 20              | QPSK       | 1       | 49        | 13.88                 | 13.90                    | 13.85                  |                     |          |  |                     |          |  |
| 20              | QPSK       | 1       | 99        | 13.38                 | 13.62                    | 13.61                  |                     |          |  |                     |          |  |
| 20              | QPSK       | 50      | 0         | 13.69                 | 13.70                    | 13.63                  |                     |          |  |                     |          |  |
| 20              | QPSK       | 50      | 24        | 13.48                 | 13.54                    | 13.46                  | 15                  | 0        |  |                     |          |  |
| 20              | QPSK       | 50      | 50        | 13.52                 | 13.55                    | 13.55                  |                     |          |  |                     |          |  |
| 20              | QPSK       | 100     | 0         | 13.38                 | 13.62                    | 13.32                  |                     |          |  |                     |          |  |
| 20              | 16QAM      | 1       | 0         | 13.52                 | 13.74                    | 13.50                  |                     |          |  |                     |          |  |
| 20              | 16QAM      | 1       | 49        | 13.39                 | 13.31                    | 13.42                  | 15                  | 0        |  |                     |          |  |
| 20              | 16QAM      | 1       | 99        | 13.40                 | 13.45                    | 13.34                  |                     |          |  |                     |          |  |
| 20              | 16QAM      | 50      | 0         | 13.73                 | 13.79                    | 13.71                  |                     |          |  |                     |          |  |
| 20              | 16QAM      | 50      | 24        | 13.35                 | 13.29                    | 13.38                  |                     |          |  |                     |          |  |
| 20              | 16QAM      | 50      | 50        | 13.60                 | 13.33                    | 13.54                  | 15                  | 0        |  |                     |          |  |
| 20              | 16QAM      | 100     | 0         | 13.66                 | 13.38                    | 13.65                  |                     |          |  |                     |          |  |
| 20              | 64QAM      | 1       | 0         | 13.50                 | 13.51                    | 13.53                  |                     |          |  |                     |          |  |
| 20              | 64QAM      | 1       | 49        | 13.67                 | 13.52                    | 13.61                  |                     |          |  |                     |          |  |
| 20              | 64QAM      | 1       | 99        | 13.68                 | 13.63                    | 13.66                  | 15                  | 0        |  |                     |          |  |
| 20              | 64QAM      | 50      | 0         | 13.42                 | 13.43                    | 13.45                  |                     |          |  |                     |          |  |
| 20              | 64QAM      | 50      | 24        | 13.56                 | 13.58                    | 13.50                  |                     |          |  |                     |          |  |
| 20              | 64QAM      | 50      | 50        | 13.69                 | 13.51                    | 13.67                  |                     |          |  |                     |          |  |
| 20              | 64QAM      | 100     | 0         | 13.34                 | 13.39                    | 13.37                  |                     |          |  |                     |          |  |
| Channel         |            |         |           | 132047                | 132322                   | 132597                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |          |  |                     |          |  |
| 15              | QPSK       | 1       | 0         | 13.52                 | 13.53                    | 13.46                  | 15                  | 0        |  |                     |          |  |
| 15              | QPSK       | 1       | 37        | 13.79                 | 13.89                    | 13.76                  |                     |          |  |                     |          |  |
| 15              | QPSK       | 1       | 74        | 13.38                 | 13.56                    | 13.41                  |                     |          |  |                     |          |  |
| 15              | QPSK       | 36      | 0         | 13.57                 | 13.61                    | 13.51                  |                     |          |  |                     |          |  |
| 15              | QPSK       | 36      | 20        | 13.35                 | 13.36                    | 13.33                  | 15                  | 0        |  |                     |          |  |
| 15              | QPSK       | 36      | 39        | 13.40                 | 13.45                    | 13.43                  |                     |          |  |                     |          |  |
| 15              | QPSK       | 75      | 0         | 13.34                 | 13.51                    | 13.28                  |                     |          |  |                     |          |  |
| 15              | 16QAM      | 1       | 0         | 13.52                 | 13.56                    | 13.50                  |                     |          |  |                     |          |  |
| 15              | 16QAM      | 1       | 37        | 13.27                 | 13.14                    | 13.30                  | 15                  | 0        |  |                     |          |  |
| 15              | 16QAM      | 1       | 74        | 13.24                 | 13.26                    | 13.30                  |                     |          |  |                     |          |  |
| 15              | 16QAM      | 36      | 0         | 13.73                 | 13.54                    | 13.71                  |                     |          |  |                     |          |  |
| 15              | 16QAM      | 36      | 20        | 13.25                 | 13.22                    | 13.28                  |                     |          |  |                     |          |  |
| 15              | 16QAM      | 36      | 39        | 13.41                 | 13.17                    | 13.35                  | 15                  | 0        |  |                     |          |  |
| 15              | 16QAM      | 75      | 0         | 13.47                 | 13.84                    | 13.45                  |                     |          |  |                     |          |  |
| 15              | 64QAM      | 1       | 0         | 13.48                 | 13.48                    | 13.51                  |                     |          |  |                     |          |  |
| 15              | 64QAM      | 1       | 37        | 13.54                 | 13.58                    | 13.48                  |                     |          |  |                     |          |  |
| 15              | 64QAM      | 1       | 74        | 13.59                 | 13.53                    | 13.57                  | 15                  | 0        |  |                     |          |  |
| 15              | 64QAM      | 36      | 0         | 13.41                 | 13.27                    | 13.44                  |                     |          |  |                     |          |  |
| 15              | 64QAM      | 36      | 20        | 13.40                 | 13.44                    | 13.34                  |                     |          |  |                     |          |  |
| 15              | 64QAM      | 36      | 39        | 13.51                 | 13.33                    | 13.49                  |                     |          |  |                     |          |  |
| 15              | 64QAM      | 75      | 0         | 13.28                 | 13.32                    | 13.31                  |                     |          |  |                     |          |  |
| Channel         |            |         |           | 132022                | 132322                   | 132622                 |                     |          |  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 1719.5                | 1745                     | 1770.5                 |                     |          |  |                     |          |  |
| 10              | QPSK       | 1       | 0         | 13.60                 | 13.46                    | 13.54                  |                     |          |  | 15                  | 0        |  |
| 10              | QPSK       | 1       | 25        | 13.71                 | 13.83                    | 13.68                  |                     |          |  |                     |          |  |
| 10              | QPSK       | 1       | 49        | 13.20                 | 13.49                    | 13.23                  |                     |          |  |                     |          |  |
| 10              | QPSK       | 25      | 0         | 13.52                 | 13.52                    | 13.46                  |                     |          |  |                     |          |  |
| 10              | QPSK       | 25      | 12        | 13.31                 | 13.44                    | 13.29                  | 15                  | 0        |  |                     |          |  |
| 10              | QPSK       | 25      | 25        | 13.39                 | 13.45                    | 13.42                  |                     |          |  |                     |          |  |
| 10              | QPSK       | 50      | 0         | 13.30                 | 13.48                    | 13.14                  |                     |          |  |                     |          |  |
| 10              | 16QAM      | 1       | 0         | 13.39                 | 13.68                    | 13.37                  |                     |          |  |                     |          |  |
| 10              | 16QAM      | 1       | 25        | 13.24                 | 13.27                    | 13.27                  | 15                  | 0        |  |                     |          |  |
| 10              | 16QAM      | 1       | 49        | 13.32                 | 13.42                    | 13.26                  |                     |          |  |                     |          |  |
| 10              | 16QAM      | 25      | 0         | 13.58                 | 13.67                    | 13.56                  |                     |          |  |                     |          |  |
| 10              | 16QAM      | 25      | 12        | 13.16                 | 13.24                    | 13.21                  |                     |          |  |                     |          |  |
| 10              | 16QAM      | 25      | 25        | 13.56                 | 13.21                    | 13.50                  | 15                  | 0        |  |                     |          |  |
| 10              | 16QAM      | 50      | 0         | 13.47                 | 13.72                    | 13.45                  |                     |          |  |                     |          |  |
| 10              | 64QAM      | 1       | 0         | 13.50                 | 13.36                    | 13.53                  |                     |          |  |                     |          |  |
| 10              | 64QAM      | 1       | 25        | 13.49                 | 13.44                    | 13.43                  |                     |          |  |                     |          |  |
| 10              | 64QAM      | 1       | 49        | 13.63                 | 13.55                    | 13.61                  | 15                  | 0        |  |                     |          |  |
| 10              | 64QAM      | 25      | 0         | 13.39                 | 13.42                    | 13.36                  |                     |          |  |                     |          |  |
| 10              | 64QAM      | 25      | 12        | 13.54                 | 13.54                    | 13.48                  |                     |          |  |                     |          |  |
| 10              | 64QAM      | 25      | 25        | 13.50                 | 13.41                    | 13.48                  |                     |          |  |                     |          |  |
| 10              | 64QAM      | 50      | 0         | 13.21                 | 13.26                    | 13.24                  |                     |          |  |                     |          |  |
| Channel         |            |         |           | 131997                | 132322                   | 132647                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz) |            |         |           | 1719.5                | 1745                     | 1770.5                 |                     |          |  |                     |          |  |
| 5               | QPSK       | 1       | 0         | 13.68                 | 13.51                    | 13.62                  | 15                  | 0        |  |                     |          |  |
| 5               | QPSK       | 1       | 12        | 13.87                 | 13.87                    | 13.84                  |                     |          |  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 13.21                 | 13.47                    | 13.20                  |                     |          |  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 13.61                 | 13.63                    | 13.55                  |                     |          |  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 13.46                 | 13.40                    | 13.44                  | 15                  | 0        |  |                     |          |  |
| 5               | QPSK       | 12      | 13        | 13.37                 | 13.50                    | 13.40                  |                     |          |  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 13.32                 | 13.46                    | 13.26                  |                     |          |  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 13.33                 | 13.73                    | 13.31                  |                     |          |  |                     |          |  |
| 5               | 16QAM      | 1       | 1         | 13.27                 | 13.21                    | 13.30                  | 15                  | 0        |  |                     |          |  |
| 5               | 16QAM      | 1       | 24        | 13.37                 | 13.43                    | 13.31                  |                     |          |  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 13.63                 | 13.61                    | 13.61                  |                     |          |  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 13.31                 | 13.13                    | 13.34                  |                     |          |  |                     |          |  |
| 5               | 16QAM      | 12      | 13        | 13.48                 | 13.17                    | 13.42                  | 15                  | 0        |  |                     |          |  |
| 5               | 16QAM      | 25      | 0         | 13.62                 | 13.65                    | 13.60                  |                     |          |  |                     |          |  |
| 5               | 64QAM      | 1       | 1         | 13.32                 | 13.31                    | 13.37                  |                     |          |  |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 13.60                 | 13.49                    | 13.54                  |                     |          |  |                     |          |  |
| 5               | 64QAM      | 1       | 24        | 13.64                 | 13.48                    | 13.62                  | 15                  | 0        |  |                     |          |  |
| 5               | 64QAM      | 12      | 0         | 13.42                 | 13.36                    | 13.45                  |                     |          |  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 13.42                 | 13.47                    | 13.36                  |                     |          |  |                     |          |  |
| 5               | 64QAM      | 12      | 13        | 13.51                 | 13.40                    | 13.49                  |                     |          |  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 13.32                 | 13.38                    | 13.27                  |                     |          |  |                     |          |  |
| Channel         |            |         |           | 131987                | 132322                   | 132657                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz) |            |         |           | 1711.5                | 1745                     | 1778.5                 |                     |          |  |                     |          |  |
| 3               | QPSK       | 1       | 0         | 13.57                 | 13.51                    | 13.51                  | 15                  | 0        |  |                     |          |  |
| 3               | QPSK       | 1       | 8         | 13.78                 | 13.72                    | 13.75                  |                     |          |  |                     |          |  |
| 3               | QPSK       | 1       | 14        | 13.21                 | 13.44                    | 13.24                  |                     |          |  |                     |          |  |
| 3               | QPSK       | 8       | 0         | 13.51                 | 13.66                    | 13.45                  |                     |          |  |                     |          |  |
| 3               | QPSK       | 8       | 4         | 13.32                 | 13.42                    | 13.30                  | 15                  | 0        |  |                     |          |  |
| 3               | QPSK       | 8       | 7         | 13.47                 | 13.45                    | 13.50                  |                     |          |  |                     |          |  |
| 3               | QPSK       | 15      | 0         | 13.32                 | 13.61                    | 13.26                  |                     |          |  |                     |          |  |
| 3               | 16QAM      | 1       | 0         | 13.41                 | 13.57                    | 13.39                  |                     |          |  |                     |          |  |
| 3               | 16QAM      | 1       | 8         | 13.29                 | 13.25                    | 13.32                  | 15                  | 0        |  |                     |          |  |
| 3               | 16QAM      | 1       | 14        | 13.25                 | 13.29                    | 13.31                  |                     |          |  |                     |          |  |
| 3               | 16QAM      | 8       | 0         | 13.68                 | 13.72                    | 13.66                  |                     |          |  |                     |          |  |
| 3               | 16QAM      | 8       | 4         | 13.23                 | 13.16                    | 13.25                  |                     |          |  |                     |          |  |
| 3               | 16QAM      | 8       | 7         | 13.57                 | 13.18                    | 13.51                  | 15                  | 0        |  |                     |          |  |
| 3               | 16QAM      | 15      | 0         | 13.46                 | 13.81                    | 13.44                  |                     |          |  |                     |          |  |
| 3               | 64QAM      | 1       | 0         | 13.46                 | 13.34                    | 13.49                  |                     |          |  |                     |          |  |
| 3               | 64QAM      | 1       | 8         | 13.56                 | 13.48                    | 13.50                  |                     |          |  |                     |          |  |
| 3               | 64QAM      | 1       | 14        | 13.46                 | 13.52                    | 13.40                  | 15                  | 0        |  |                     |          |  |
| 3               | 64QAM      | 8       | 0         | 13.32                 | 13.26                    | 13.35                  |                     |          |  |                     |          |  |
| 3               | 64QAM      | 8       | 4         | 13.43                 | 13.54                    | 13.37                  |                     |          |  |                     |          |  |
| 3               | 64QAM      | 8       | 7         | 13.55                 | 13.45                    | 13.53                  |                     |          |  |                     |          |  |
| 3               | 64QAM      | 15      | 0         | 13.25                 | 13.28                    | 13.28                  |                     |          |  |                     |          |  |
| Channel         |            |         |           | 131979                | 132322                   | 132685                 | Tune-up limit (dBm) | MPR (dB) |  |                     |          |  |
| Frequency (MHz) |            |         |           | 1712.7                | 1745                     | 1779.3                 |                     |          |  |                     |          |  |
| 1.4             | QPSK       | 1       | 0         | 13.52                 | 13.48                    | 13.40                  | 15                  | 0        |  |                     |          |  |
| 1.4             | QPSK       | 1       | 3         | 13.82                 | 13.81                    | 13.79                  |                     |          |  |                     |          |  |
| 1.4             | QPSK       | 1       | 5         | 13.30                 | 13.50                    | 13.33                  |                     |          |  |                     |          |  |
| 1.4             | QPSK       | 3       | 0         | 13.53                 | 13.68                    | 13.47                  |                     |          |  |                     |          |  |
| 1.4             | QPSK       | 3       | 1         | 13.30                 | 13.53                    | 13.28                  | 15                  | 0        |  |                     |          |  |
| 1.4             | QPSK       | 3       | 3         | 13.44                 | 13.40                    | 13.47                  |                     |          |  |                     |          |  |
| 1.4             | QPSK       | 6       | 0         | 13.26                 | 13.51                    | 13.20                  |                     |          |  |                     |          |  |
| 1.4             | 16QAM      | 1       | 0         | 13.38                 | 13.60                    | 13.36                  |                     |          |  |                     |          |  |
| 1.4             | 16QAM      | 1       | 3         | 13.20                 | 13.22                    | 13.23                  | 15                  | 0        |  |                     |          |  |
| 1.4             | 16QAM      | 1       | 5         | 13.38                 | 13.34                    | 13.32                  |                     |          |  |                     |          |  |
| 1.4             | 16QAM      | 3       | 0         | 13.62                 | 13.78                    | 13.60                  |                     |          |  |                     |          |  |
| 1.4             | 16QAM      | 3       | 1         | 13.20                 | 13.16                    | 13.23                  |                     |          |  |                     |          |  |
| 1.4             | 16QAM      | 3       | 3         | 13.50                 | 13.48                    | 13.41                  | 15                  | 0        |  |                     |          |  |
| 1.4             | 16QAM      | 6       | 0         | 13.49                 | 13.79                    | 13.47                  |                     |          |  |                     |          |  |
| 1.4             | 64QAM      | 1       | 0         | 13.45                 | 13.44                    | 13.48                  |                     |          |  |                     |          |  |
| 1.4             | 64QAM      | 1       | 3         | 13.63                 | 13.38                    | 13.57                  |                     |          |  |                     |          |  |
| 1.4             | 64QAM      | 1       | 5         | 13.61                 | 13.47                    | 13.64                  | 15                  | 0        |  |                     |          |  |
| 1.4             | 64QAM      | 3       | 0         | 13.41                 | 13.40                    | 13.44                  |                     |          |  |                     |          |  |
| 1.4             | 64QAM      | 3       | 1         | 13.44                 | 13.51                    | 13.38                  |                     |          |  |                     |          |  |
| 1.4             | 64QAM      | 3       | 3         | 13.50                 | 13.46                    | 13.48                  |                     |          |  |                     |          |  |
| 1.4             | 64QAM      | 6       | 0         | 13.33                 | 13.38                    | 13.36                  | 15                  | 0        |  |                     |          |  |

| Band 38         |            |         |           |                             |                              |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Main<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 37850                       | 38000                        | 38150                        |                        |             |  |
| Frequency (MHz) |            |         |           | 2580                        | 2595                         | 2610                         |                        |             |  |
| 20              | QPSK       | 1       | 0         | 15.69                       | 15.66                        | 15.70                        |                        |             |  |
| 20              | QPSK       | 1       | 49        | 16.02                       | 16.10                        | 16.03                        | 17                     | 0           |  |
| 20              | QPSK       | 1       | 99        | 15.72                       | 15.70                        | 15.63                        |                        |             |  |
| 20              | QPSK       | 50      | 0         | 15.76                       | 15.65                        | 15.77                        |                        |             |  |
| 20              | QPSK       | 50      | 24        | 15.70                       | 15.80                        | 15.75                        | 17                     | 0           |  |
| 20              | QPSK       | 50      | 50        | 15.52                       | 15.53                        | 15.69                        |                        |             |  |
| 20              | QPSK       | 100     | 0         | 15.55                       | 15.60                        | 15.46                        |                        |             |  |
| 20              | 16QAM      | 1       | 0         | 15.80                       | 15.95                        | 15.84                        | 17                     | 0           |  |
| 20              | 16QAM      | 1       | 49        | 15.86                       | 15.59                        | 15.61                        |                        |             |  |
| 20              | 16QAM      | 1       | 99        | 15.55                       | 15.60                        | 15.54                        |                        |             |  |
| 20              | 16QAM      | 50      | 0         | 15.70                       | 15.77                        | 15.74                        | 17                     | 0           |  |
| 20              | 16QAM      | 50      | 24        | 15.53                       | 15.49                        | 15.51                        |                        |             |  |
| 20              | 16QAM      | 50      | 50        | 15.53                       | 15.48                        | 15.40                        |                        |             |  |
| 20              | 16QAM      | 100     | 0         | 15.86                       | 15.78                        | 15.90                        | 17                     | 0           |  |
| 20              | 64QAM      | 1       | 0         | 15.49                       | 15.65                        | 15.66                        |                        |             |  |
| 20              | 64QAM      | 1       | 49        | 15.40                       | 15.41                        | 15.51                        |                        |             |  |
| 20              | 64QAM      | 1       | 99        | 15.82                       | 15.85                        | 15.86                        | 17                     | 0           |  |
| 20              | 64QAM      | 50      | 0         | 15.44                       | 15.39                        | 15.61                        |                        |             |  |
| 20              | 64QAM      | 50      | 24        | 15.50                       | 15.36                        | 15.61                        |                        |             |  |
| 20              | 64QAM      | 50      | 50        | 15.79                       | 15.85                        | 15.83                        | 17                     | 0           |  |
| 20              | 64QAM      | 100     | 0         | 15.29                       | 15.65                        | 15.46                        |                        |             |  |
| Channel         |            |         |           | 37825                       | 38000                        | 38175                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                         | 2612.5                       |                        |             |  |
| 15              | QPSK       | 1       | 0         | 15.69                       | 15.56                        | 15.70                        |                        | 17          |  |
| 15              | QPSK       | 1       | 37        | 15.91                       | 16.09                        | 15.92                        |                        |             |  |
| 15              | QPSK       | 1       | 74        | 15.72                       | 15.61                        | 15.63                        |                        |             |  |
| 15              | QPSK       | 36      | 0         | 15.72                       | 15.66                        | 15.73                        | 17                     | 0           |  |
| 15              | QPSK       | 36      | 20        | 15.65                       | 15.65                        | 15.70                        |                        |             |  |
| 15              | QPSK       | 36      | 39        | 15.49                       | 15.49                        | 15.66                        |                        |             |  |
| 15              | QPSK       | 75      | 0         | 15.42                       | 15.52                        | 15.33                        | 17                     | 0           |  |
| 15              | 16QAM      | 1       | 0         | 15.75                       | 15.96                        | 15.79                        |                        |             |  |
| 15              | 16QAM      | 1       | 37        | 15.60                       | 15.51                        | 15.55                        |                        |             |  |
| 15              | 16QAM      | 1       | 74        | 15.52                       | 15.53                        | 15.51                        | 17                     | 0           |  |
| 15              | 16QAM      | 36      | 0         | 15.56                       | 15.66                        | 15.60                        |                        |             |  |
| 15              | 16QAM      | 36      | 20        | 15.44                       | 15.43                        | 15.42                        |                        |             |  |
| 15              | 16QAM      | 36      | 39        | 15.36                       | 15.43                        | 15.23                        | 17                     | 0           |  |
| 15              | 16QAM      | 75      | 0         | 15.79                       | 15.66                        | 15.63                        |                        |             |  |
| 15              | 64QAM      | 1       | 0         | 15.48                       | 15.54                        | 15.65                        |                        |             |  |
| 15              | 64QAM      | 1       | 37        | 15.29                       | 15.39                        | 15.40                        | 17                     | 0           |  |
| 15              | 64QAM      | 1       | 74        | 15.74                       | 15.79                        | 15.78                        |                        |             |  |
| 15              | 64QAM      | 36      | 0         | 15.43                       | 15.31                        | 15.60                        |                        |             |  |
| 15              | 64QAM      | 36      | 20        | 15.37                       | 15.21                        | 15.46                        | 17                     | 0           |  |
| 15              | 64QAM      | 36      | 39        | 15.71                       | 15.75                        | 15.75                        |                        |             |  |
| 15              | 64QAM      | 75      | 0         | 15.18                       | 15.59                        | 15.35                        |                        |             |  |
| Channel         |            |         |           | 37800                       | 38000                        | 38200                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2575                        | 2595                         | 2615                         |                        |             |  |
| 10              | QPSK       | 1       | 0         | 15.67                       | 15.66                        | 15.58                        |                        | 17          |  |
| 10              | QPSK       | 1       | 25        | 15.88                       | 15.09                        | 15.69                        |                        |             |  |
| 10              | QPSK       | 1       | 49        | 15.55                       | 15.59                        | 15.66                        |                        |             |  |
| 10              | QPSK       | 25      | 0         | 15.64                       | 15.84                        | 15.65                        | 17                     | 0           |  |
| 10              | QPSK       | 25      | 12        | 15.67                       | 15.68                        | 15.72                        |                        |             |  |
| 10              | QPSK       | 25      | 25        | 15.37                       | 15.35                        | 15.54                        |                        |             |  |
| 10              | QPSK       | 50      | 0         | 15.38                       | 15.43                        | 15.29                        | 17                     | 0           |  |
| 10              | 16QAM      | 1       | 0         | 15.71                       | 15.79                        | 15.75                        |                        |             |  |
| 10              | 16QAM      | 1       | 25        | 15.64                       | 15.49                        | 15.59                        |                        |             |  |
| 10              | 16QAM      | 1       | 49        | 15.37                       | 15.55                        | 15.36                        | 17                     | 0           |  |
| 10              | 16QAM      | 25      | 0         | 15.51                       | 15.76                        | 15.55                        |                        |             |  |
| 10              | 16QAM      | 25      | 12        | 15.40                       | 15.40                        | 15.38                        |                        |             |  |
| 10              | 16QAM      | 25      | 25        | 15.37                       | 15.36                        | 15.24                        | 17                     | 0           |  |
| 10              | 16QAM      | 50      | 0         | 15.74                       | 15.75                        | 15.78                        |                        |             |  |
| 10              | 64QAM      | 1       | 0         | 15.46                       | 15.64                        | 15.63                        |                        |             |  |
| 10              | 64QAM      | 1       | 25        | 15.35                       | 15.34                        | 15.46                        | 17                     | 0           |  |
| 10              | 64QAM      | 1       | 49        | 15.70                       | 15.67                        | 15.74                        |                        |             |  |
| 10              | 64QAM      | 25      | 0         | 15.36                       | 15.20                        | 15.53                        |                        |             |  |
| 10              | 64QAM      | 25      | 12        | 15.39                       | 15.29                        | 15.50                        | 17                     | 0           |  |
| 10              | 64QAM      | 25      | 25        | 15.78                       | 15.79                        | 15.82                        |                        |             |  |
| 10              | 64QAM      | 50      | 0         | 15.23                       | 15.63                        | 15.40                        |                        |             |  |
| Channel         |            |         |           | 37775                       | 38000                        | 38225                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                         | 2617.5                       |                        |             |  |
| 5               | QPSK       | 1       | 0         | 15.62                       | 15.66                        | 15.63                        |                        | 17          |  |
| 5               | QPSK       | 1       | 12        | 15.88                       | 16.06                        | 15.89                        |                        |             |  |
| 5               | QPSK       | 1       | 24        | 15.69                       | 15.67                        | 15.80                        |                        |             |  |
| 5               | QPSK       | 12      | 0         | 15.64                       | 15.76                        | 15.65                        | 17                     | 0           |  |
| 5               | QPSK       | 12      | 7         | 15.69                       | 15.64                        | 15.74                        |                        |             |  |
| 5               | QPSK       | 12      | 13        | 15.51                       | 15.39                        | 15.68                        |                        |             |  |
| 5               | QPSK       | 25      | 0         | 15.53                       | 15.58                        | 15.44                        | 17                     | 0           |  |
| 5               | 16QAM      | 1       | 0         | 15.62                       | 15.76                        | 15.66                        |                        |             |  |
| 5               | 16QAM      | 1       | 12        | 15.53                       | 15.52                        | 15.48                        |                        |             |  |
| 5               | 16QAM      | 1       | 24        | 15.46                       | 15.51                        | 15.45                        | 17                     | 0           |  |
| 5               | 16QAM      | 12      | 0         | 15.67                       | 15.66                        | 15.71                        |                        |             |  |
| 5               | 16QAM      | 12      | 7         | 15.45                       | 15.40                        | 15.43                        |                        |             |  |
| 5               | 16QAM      | 12      | 13        | 15.51                       | 15.40                        | 15.38                        | 17                     | 0           |  |
| 5               | 16QAM      | 25      | 0         | 15.67                       | 15.63                        | 15.71                        |                        |             |  |
| 5               | 64QAM      | 1       | 0         | 15.38                       | 15.49                        | 15.55                        |                        |             |  |
| 5               | 64QAM      | 1       | 12        | 15.24                       | 15.23                        | 15.35                        | 17                     | 0           |  |
| 5               | 64QAM      | 1       | 24        | 15.81                       | 15.71                        | 15.85                        |                        |             |  |
| 5               | 64QAM      | 12      | 0         | 15.40                       | 15.39                        | 15.57                        |                        |             |  |
| 5               | 64QAM      | 12      | 7         | 15.31                       | 15.21                        | 15.42                        | 17                     | 0           |  |
| 5               | 64QAM      | 12      | 13        | 15.77                       | 15.77                        | 15.81                        |                        |             |  |
| 5               | 64QAM      | 25      | 0         | 15.10                       | 15.52                        | 15.27                        |                        |             |  |

### Reduced Power for Hotspot on

| GSM850          | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
|                 | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| TX Channel      | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| Frequency (MHz) |                           |       |       |                     |                           |       |       |                     |
| GSM 1 Tx slot   | 31.86                     | 32.05 | 31.89 | 33.00               | 22.86                     | 23.05 | 22.89 | 24.00               |
| GPRS 1 Tx slot  | 31.83                     | 32.00 | 31.88 | 33.00               | 22.83                     | 23.00 | 22.88 | 24.00               |
| GPRS 2 Tx slots | 31.08                     | 31.07 | 31.01 | 32.00               | 25.08                     | 25.07 | 25.01 | 26.00               |
| GPRS 3 Tx slots | 29.15                     | 29.34 | 29.30 | 30.50               | 24.89                     | 25.08 | 25.04 | 26.24               |
| GPRS 4 Tx slots | 28.15                     | 28.18 | 28.13 | 29.50               | 25.15                     | 25.18 | 25.13 | 26.50               |
| EDGE 1 Tx slot  | 26.39                     | 26.31 | 26.37 | 27.50               | 17.39                     | 17.31 | 17.37 | 18.50               |
| EDGE 2 Tx slots | 25.29                     | 25.22 | 25.26 | 26.00               | 19.29                     | 19.22 | 19.26 | 20.00               |
| EDGE 3 Tx slots | 23.27                     | 23.06 | 23.05 | 24.00               | 19.01                     | 18.80 | 18.79 | 19.74               |
| EDGE 4 Tx slots | 22.00                     | 21.90 | 21.89 | 22.50               | 19.00                     | 18.90 | 18.89 | 19.50               |

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
|                 | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| TX Channel      | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| Frequency (MHz) |                           |       |        |                     |                           |       |        |                     |
| GSM 1 Tx slot   | 23.78                     | 23.62 | 24.00  | 25.00               | 14.78                     | 14.62 | 15.00  | 16.00               |
| GPRS 1 Tx slot  | 23.73                     | 23.59 | 24.02  | 25.00               | 14.73                     | 14.59 | 15.02  | 16.00               |
| GPRS 2 Tx slots | 23.12                     | 23.00 | 23.11  | 24.50               | 17.12                     | 17.00 | 17.11  | 18.50               |
| GPRS 3 Tx slots | 21.23                     | 21.28 | 21.43  | 22.50               | 16.97                     | 17.02 | 17.17  | 18.24               |
| GPRS 4 Tx slots | 20.13                     | 20.21 | 20.38  | 21.50               | 17.13                     | 17.21 | 17.38  | 18.50               |
| EDGE 1 Tx slot  | 20.35                     | 20.29 | 20.25  | 21.00               | 11.35                     | 11.29 | 11.25  | 12.00               |
| EDGE 2 Tx slots | 19.41                     | 19.28 | 19.30  | 20.00               | 13.41                     | 13.28 | 13.30  | 14.00               |
| EDGE 3 Tx slots | 17.45                     | 17.36 | 17.35  | 18.50               | 13.19                     | 13.10 | 13.09  | 14.24               |
| EDGE 4 Tx slots | 16.44                     | 16.24 | 16.21  | 17.50               | 13.44                     | 13.24 | 13.21  | 14.50               |

| Band            | WCDMA II                |       |        | Tune-up Limit | WCDMA IV |        |        | Tune-up Limit | WCDMA V |       |       | Tune-up Limit |       |
|-----------------|-------------------------|-------|--------|---------------|----------|--------|--------|---------------|---------|-------|-------|---------------|-------|
|                 | 9262                    | 9400  | 9538   |               | 1312     | 1413   | 1513   |               | 4132    | 4182  | 4233  |               |       |
| TX Channel      | 9662                    | 9800  | 9938   |               | 1537     | 1638   | 1738   |               | 4357    | 4407  | 4458  |               |       |
| Frequency (MHz) | 1852.4                  | 1880  | 1907.6 |               | 1712.4   | 1732.6 | 1752.6 |               | 826.4   | 836.4 | 846.6 |               |       |
| 3GPP Rel 99     | AMR 12.2Kbps            | 15.19 | 15.17  | 15.18         | 17.00    | 12.57  | 12.39  | 12.43         | 14.00   | 22.35 | 22.39 | 22.37         | 24.00 |
| 3GPP Rel 99     | RMC 12.2Kbps            | 15.22 | 15.20  | 15.23         | 17.00    | 12.66  | 12.42  | 12.54         | 14.00   | 22.37 | 22.40 | 22.38         | 24.00 |
| 3GPP Rel 6      | HSDPA Subtest-1         | 14.23 | 14.18  | 14.28         | 16.00    | 11.63  | 11.53  | 11.26         | 13.00   | 21.45 | 21.45 | 21.51         | 23.00 |
| 3GPP Rel 6      | HSDPA Subtest-2         | 14.24 | 14.14  | 14.04         | 16.00    | 11.69  | 11.30  | 11.48         | 13.00   | 21.41 | 21.33 | 21.36         | 23.00 |
| 3GPP Rel 6      | HSDPA Subtest-3         | 13.64 | 13.63  | 13.79         | 15.50    | 11.12  | 11.09  | 10.77         | 12.50   | 20.93 | 20.86 | 20.89         | 22.50 |
| 3GPP Rel 6      | HSDPA Subtest-4         | 13.70 | 13.66  | 13.68         | 15.50    | 11.05  | 11.01  | 10.88         | 12.50   | 20.90 | 20.81 | 20.84         | 22.50 |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 14.23 | 14.18  | 14.13         | 16.00    | 11.73  | 11.29  | 11.45         | 13.00   | 21.38 | 21.34 | 21.43         | 23.00 |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 14.19 | 14.16  | 14.18         | 16.00    | 11.66  | 11.44  | 11.23         | 13.00   | 21.30 | 21.19 | 21.26         | 23.00 |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 13.64 | 13.57  | 13.62         | 15.50    | 11.04  | 10.78  | 10.89         | 12.50   | 20.86 | 20.72 | 20.82         | 22.50 |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 13.67 | 13.60  | 13.66         | 15.50    | 11.01  | 10.86  | 10.77         | 12.50   | 20.81 | 20.72 | 20.69         | 22.50 |
| 3GPP Rel 8      | HSUPA Subtest-1         | 12.27 | 12.20  | 12.34         | 14.00    | 9.53   | 9.53   | 9.32          | 11.00   | 19.48 | 19.46 | 19.50         | 21.00 |
| 3GPP Rel 6      | HSUPA Subtest-2         | 12.28 | 12.23  | 12.31         | 14.00    | 9.63   | 9.54   | 9.40          | 11.00   | 19.49 | 19.46 | 19.42         | 21.00 |
| 3GPP Rel 6      | HSUPA Subtest-3         | 12.99 | 13.07  | 13.18         | 14.50    | 10.77  | 10.58  | 10.55         | 11.50   | 20.50 | 20.46 | 20.48         | 21.50 |
| 3GPP Rel 6      | HSUPA Subtest-4         | 12.04 | 12.08  | 12.07         | 13.50    | 9.22   | 9.10   | 9.01          | 10.50   | 19.17 | 19.20 | 19.22         | 20.50 |
| 3GPP Rel 6      | HSUPA Subtest-5         | 13.00 | 12.98  | 13.00         | 14.50    | 10.64  | 10.47  | 10.44         | 11.50   | 20.50 | 20.40 | 20.30         | 21.50 |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 12.71 | 12.65  | 12.75         | 14.00    | 10.21  | 10.08  | 10.14         | 11.00   | 20.01 | 20.05 | 20.00         | 21.00 |

| Band 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) |            |         |           | 1860                | 1880                   | 1900                 |                     |          |    |   |  |  |  |
| 20              | QPSK       | 1       | 0         | 15.28               | 15.35                  | 15.30                |                     |          | 17 | 0 |  |  |  |
| 20              | QPSK       | 1       | 49        | 15.50               | 15.52                  | 15.37                |                     |          |    |   |  |  |  |
| 20              | QPSK       | 1       | 99        | 15.30               | 15.32                  | 15.27                |                     |          |    |   |  |  |  |
| 20              | QPSK       | 50      | 0         | 15.26               | 15.32                  | 15.15                |                     |          |    |   |  |  |  |
| 20              | QPSK       | 50      | 24        | 15.17               | 15.10                  | 15.15                |                     |          |    |   |  |  |  |
| 20              | QPSK       | 50      | 50        | 15.30               | 15.19                  | 15.17                |                     |          | 17 | 0 |  |  |  |
| 20              | QPSK       | 100     | 0         | 15.16               | 15.20                  | 15.15                |                     |          |    |   |  |  |  |
| 20              | 16QAM      | 1       | 0         | 15.31               | 15.19                  | 15.14                |                     |          |    |   |  |  |  |
| 20              | 16QAM      | 1       | 49        | 15.26               | 15.11                  | 15.14                |                     |          |    |   |  |  |  |
| 20              | 16QAM      | 1       | 99        | 15.24               | 15.18                  | 15.19                |                     |          |    |   |  |  |  |
| 20              | 16QAM      | 50      | 0         | 15.25               | 15.28                  | 15.08                |                     |          | 17 | 0 |  |  |  |
| 20              | 16QAM      | 50      | 24        | 15.11               | 15.21                  | 15.07                |                     |          |    |   |  |  |  |
| 20              | 16QAM      | 50      | 50        | 15.25               | 15.10                  | 15.12                |                     |          |    |   |  |  |  |
| 20              | 16QAM      | 100     | 0         | 15.14               | 15.10                  | 15.19                |                     |          |    |   |  |  |  |
| 20              | 64QAM      | 1       | 0         | 15.16               | 15.12                  | 15.00                |                     |          |    |   |  |  |  |
| 20              | 64QAM      | 1       | 49        | 15.24               | 15.14                  | 15.10                |                     |          | 17 | 0 |  |  |  |
| 20              | 64QAM      | 1       | 99        | 15.22               | 15.22                  | 15.18                |                     |          |    |   |  |  |  |
| 20              | 64QAM      | 50      | 0         | 15.30               | 15.15                  | 15.03                |                     |          |    |   |  |  |  |
| 20              | 64QAM      | 50      | 24        | 15.16               | 15.10                  | 15.12                |                     |          |    |   |  |  |  |
| 20              | 64QAM      | 50      | 50        | 15.17               | 15.20                  | 15.26                |                     |          |    |   |  |  |  |
| 20              | 64QAM      | 100     | 0         | 15.26               | 15.05                  | 15.04                |                     |          | 17 | 0 |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |  |
| Frequency (MHz) |            |         |           | 18675               | 18800                  | 19125                | Tune-up limit (dBm) | MPR (dB) |    |   |  |  |  |
| Frequency (MHz) |            |         |           | 1857.5              | 1880                   | 1902.5               |                     |          |    |   |  |  |  |
| 15              | QPSK       | 1       | 0         | 15.20               | 15.20                  | 15.07                |                     |          | 17 | 0 |  |  |  |
| 15              | QPSK       | 1       | 37        | 15.17               | 15.25                  | 15.12                |                     |          |    |   |  |  |  |
| 15              | QPSK       | 1       | 74        | 15.17               | 15.22                  | 15.15                |                     |          |    |   |  |  |  |
| 15              | QPSK       | 36      | 0         | 15.17               | 15.22                  | 15.16                |                     |          |    |   |  |  |  |
| 15              | QPSK       | 36      | 20        | 15.19               | 15.19                  | 15.17                |                     |          |    |   |  |  |  |
| 15              | QPSK       | 36      | 39        | 15.13               | 15.16                  | 15.14                |                     |          | 17 | 0 |  |  |  |
| 15              | QPSK       | 75      | 0         | 15.24               | 15.10                  | 15.05                |                     |          |    |   |  |  |  |
| 15              | 16QAM      | 1       | 0         | 15.22               | 15.13                  | 15.19                |                     |          |    |   |  |  |  |
| 15              | 16QAM      | 1       | 37        | 15.24               | 15.09                  | 15.03                |                     |          |    |   |  |  |  |
| 15              | 16QAM      | 1       | 74        | 15.23               | 15.16                  | 15.17                |                     |          |    |   |  |  |  |
| 15              | 16QAM      | 36      | 0         | 15.20               | 15.22                  | 15.24                |                     |          | 17 | 0 |  |  |  |
| 15              | 16QAM      | 36      | 20        | 15.05               | 15.16                  | 15.02                |                     |          |    |   |  |  |  |
| 15              | 16QAM      | 36      | 39        | 15.04               | 15.25                  | 15.06                |                     |          |    |   |  |  |  |
| 15              | 16QAM      | 75      | 0         | 15.11               | 15.27                  | 15.15                |                     |          |    |   |  |  |  |
| 15              | 64QAM      | 1       | 0         | 15.19               | 15.11                  | 15.15                |                     |          |    |   |  |  |  |
| 15              | 64QAM      | 1       | 37        | 15.12               | 15.07                  | 15.14                |                     |          | 17 | 0 |  |  |  |
| 15              | 64QAM      | 1       | 74        | 15.23               | 15.27                  | 15.27                |                     |          |    |   |  |  |  |
| 15              | 64QAM      | 36      | 0         | 15.09               | 15.20                  | 15.06                |                     |          |    |   |  |  |  |
| 15              | 64QAM      | 36      | 20        | 15.07               | 15.25                  | 15.09                |                     |          |    |   |  |  |  |
| 15              | 64QAM      | 36      | 39        | 15.14               | 15.15                  | 15.18                |                     |          |    |   |  |  |  |
| 15              | 64QAM      | 75      | 0         | 15.03               | 15.09                  | 15.00                |                     |          | 17 | 0 |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |  |
| Frequency (MHz) |            |         |           | 1855                | 1880                   | 1905                 | Tune-up limit (dBm) | MPR (dB) |    |   |  |  |  |
| 10              | QPSK       | 1       | 0         | 15.14               | 15.06                  | 15.15                |                     |          | 17 | 0 |  |  |  |
| 10              | QPSK       | 1       | 25        | 15.26               | 15.10                  | 15.10                |                     |          |    |   |  |  |  |
| 10              | QPSK       | 1       | 49        | 15.27               | 15.04                  | 15.14                |                     |          |    |   |  |  |  |
| 10              | QPSK       | 25      | 0         | 15.25               | 15.22                  | 15.12                |                     |          |    |   |  |  |  |
| 10              | QPSK       | 25      | 12        | 15.23               | 15.13                  | 15.20                |                     |          |    |   |  |  |  |
| 10              | QPSK       | 25      | 25        | 15.30               | 15.16                  | 15.09                |                     |          | 17 | 0 |  |  |  |
| 10              | QPSK       | 50      | 0         | 15.13               | 15.19                  | 15.19                |                     |          |    |   |  |  |  |
| 10              | 16QAM      | 1       | 0         | 15.17               | 15.16                  | 15.09                |                     |          |    |   |  |  |  |
| 10              | 16QAM      | 1       | 25        | 15.23               | 15.10                  | 15.14                |                     |          |    |   |  |  |  |
| 10              | 16QAM      | 1       | 49        | 15.10               | 15.13                  | 15.12                |                     |          |    |   |  |  |  |
| 10              | 16QAM      | 25      | 0         | 15.10               | 15.29                  | 15.14                |                     |          | 17 | 0 |  |  |  |
| 10              | 16QAM      | 25      | 12        | 15.06               | 15.13                  | 15.03                |                     |          |    |   |  |  |  |
| 10              | 16QAM      | 25      | 25        | 15.14               | 15.15                  | 15.16                |                     |          |    |   |  |  |  |
| 10              | 16QAM      | 50      | 0         | 15.17               | 15.11                  | 15.21                |                     |          |    |   |  |  |  |
| 10              | 64QAM      | 1       | 0         | 15.06               | 15.20                  | 15.03                |                     |          |    |   |  |  |  |
| 10              | 64QAM      | 1       | 25        | 15.02               | 15.23                  | 15.04                |                     |          | 17 | 0 |  |  |  |
| 10              | 64QAM      | 1       | 49        | 15.05               | 15.24                  | 15.09                |                     |          |    |   |  |  |  |
| 10              | 64QAM      | 25      | 0         | 15.08               | 15.13                  | 15.03                |                     |          |    |   |  |  |  |
| 10              | 64QAM      | 25      | 12        | 15.09               | 15.18                  | 15.11                |                     |          |    |   |  |  |  |
| 10              | 64QAM      | 25      | 25        | 15.14               | 15.13                  | 15.18                |                     |          |    |   |  |  |  |
| 10              | 64QAM      | 50      | 0         | 15.01               | 15.07                  | 15.00                |                     |          | 17 | 0 |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |  |
| Frequency (MHz) |            |         |           | 18625               | 18800                  | 19175                | Tune-up limit (dBm) | MPR (dB) |    |   |  |  |  |
| Frequency (MHz) |            |         |           | 1852.5              | 1880                   | 1907.5               |                     |          |    |   |  |  |  |
| 5               | QPSK       | 1       | 0         | 15.19               | 15.25                  | 15.05                |                     |          | 17 | 0 |  |  |  |
| 5               | QPSK       | 1       | 12        | 15.21               | 15.18                  | 15.13                |                     |          |    |   |  |  |  |
| 5               | QPSK       | 1       | 24        | 15.14               | 15.14                  | 15.12                |                     |          |    |   |  |  |  |
| 5               | QPSK       | 12      | 0         | 15.20               | 15.06                  | 15.02                |                     |          |    |   |  |  |  |
| 5               | QPSK       | 12      | 7         | 15.32               | 15.23                  | 15.09                |                     |          |    |   |  |  |  |
| 5               | QPSK       | 12      | 13        | 15.27               | 15.10                  | 15.16                |                     |          | 17 | 0 |  |  |  |
| 5               | QPSK       | 25      | 0         | 15.23               | 15.15                  | 15.18                |                     |          |    |   |  |  |  |
| 5               | 16QAM      | 1       | 0         | 15.29               | 15.21                  | 15.08                |                     |          |    |   |  |  |  |
| 5               | 16QAM      | 1       | 12        | 15.18               | 15.07                  | 15.14                |                     |          |    |   |  |  |  |
| 5               | 16QAM      | 1       | 24        | 15.25               | 15.13                  | 15.15                |                     |          |    |   |  |  |  |
| 5               | 16QAM      | 12      | 0         | 15.04               | 15.10                  | 15.08                |                     |          | 17 | 0 |  |  |  |
| 5               | 16QAM      | 12      | 7         | 15.07               | 15.10                  | 15.04                |                     |          |    |   |  |  |  |
| 5               | 16QAM      | 12      | 13        | 15.09               | 15.23                  | 15.11                |                     |          |    |   |  |  |  |
| 5               | 16QAM      | 25      | 0         | 15.05               | 15.15                  | 15.09                |                     |          |    |   |  |  |  |
| 5               | 64QAM      | 1       | 0         | 15.08               | 15.09                  | 15.05                |                     |          |    |   |  |  |  |
| 5               | 64QAM      | 1       | 12        | 15.03               | 15.16                  | 15.05                |                     |          | 17 | 0 |  |  |  |
| 5               | 64QAM      | 1       | 24        | 15.15               | 15.10                  | 15.19                |                     |          |    |   |  |  |  |
| 5               | 64QAM      | 12      | 0         | 15.17               | 15.09                  | 15.14                |                     |          |    |   |  |  |  |
| 5               | 64QAM      | 12      | 7         | 15.17               | 15.25                  | 15.19                |                     |          |    |   |  |  |  |
| 5               | 64QAM      | 12      | 13        | 15.15               | 15.10                  | 15.19                |                     |          |    |   |  |  |  |
| 5               | 64QAM      | 25      | 0         | 15.03               | 15.22                  | 15.00                |                     |          | 17 | 0 |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |  |
| Frequency (MHz) |            |         |           | 18615               | 18800                  | 19185                | Tune-up limit (dBm) | MPR (dB) |    |   |  |  |  |
| 3               | QPSK       | 1       | 0         | 15.21               | 15.14                  | 15.15                |                     |          | 17 | 0 |  |  |  |
| 3               | QPSK       | 1       | 8         | 15.31               | 15.28                  | 15.22                |                     |          |    |   |  |  |  |
| 3               | QPSK       | 1       | 14        | 15.17               | 15.08                  | 15.00                |                     |          |    |   |  |  |  |
| 3               | QPSK       | 8       | 0         | 15.20               | 15.11                  | 15.12                |                     |          |    |   |  |  |  |
| 3               | QPSK       | 8       | 4         | 15.29               | 15.10                  | 15.17                |                     |          |    |   |  |  |  |
| 3               | QPSK       | 8       | 7         | 15.21               | 15.08                  | 15.01                |                     |          | 17 | 0 |  |  |  |
| 3               | QPSK       | 15      | 0         | 15.25               | 15.23                  | 15.09                |                     |          |    |   |  |  |  |
| 3               | 16QAM      | 1       | 0         | 15.33               | 15.16                  | 15.10                |                     |          |    |   |  |  |  |
| 3               | 16QAM      | 1       | 8         | 15.13               | 15.17                  | 15.08                |                     |          |    |   |  |  |  |
| 3               | 16QAM      | 1       | 14        | 15.25               | 15.23                  | 15.19                |                     |          |    |   |  |  |  |
| 3               | 16QAM      | 8       | 0         | 15.12               | 15.19                  | 15.16                |                     |          | 17 | 0 |  |  |  |
| 3               | 16QAM      | 8       | 4         | 15.01               | 15.16                  | 15.00                |                     |          |    |   |  |  |  |
| 3               | 16QAM      | 8       | 7         | 15.03               | 15.12                  | 15.05                |                     |          |    |   |  |  |  |
| 3               | 16QAM      | 15      | 0         | 15.14               | 15.27                  | 15.18                |                     |          |    |   |  |  |  |
| 3               | 64QAM      | 1       | 0         | 15.05               | 15.14                  | 15.02                |                     |          |    |   |  |  |  |
| 3               | 64QAM      | 1       | 8         | 15.15               | 15.17                  | 15.17                |                     |          | 17 | 0 |  |  |  |
| 3               | 64QAM      | 1       | 14        | 15.19               | 15.12                  | 15.23                |                     |          |    |   |  |  |  |
| 3               | 64QAM      | 8       | 0         | 15.14               | 15.11                  | 15.11                |                     |          |    |   |  |  |  |
| 3               | 64QAM      | 8       | 4         | 15.09               | 15.07                  | 15.11                |                     |          |    |   |  |  |  |
| 3               | 64QAM      | 8       | 7         | 15.15               | 15.22                  | 15.19                |                     |          |    |   |  |  |  |
| 3               | 64QAM      | 15      | 0         | 15.12               | 15.22                  | 15.09                |                     |          | 17 | 0 |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |    |   |  |  |  |
| Frequency (MHz) |            |         |           | 18607               | 18800                  | 19193                | Tune-up limit (dBm) | MPR (dB) |    |   |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 15.23               | 15.21                  | 15.17                |                     |          | 17 | 0 |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 15.26               | 15.25                  | 15.25                |                     |          |    |   |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 15.25               | 15.14                  | 15.08                |                     |          |    |   |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 15.28               | 15.15                  | 15.20                |                     |          |    |   |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 15.17               | 15.11                  | 15.16                |                     |          |    |   |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 15.25               | 15.14                  | 15.00                |                     |          | 17 | 0 |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 15.15               | 15.17                  | 15.17                |                     |          |    |   |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 15.26               | 15.16                  | 15.08                |                     |          |    |   |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 15.13               | 15.03                  | 15.06                |                     |          |    |   |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 15.22               | 15.22                  | 15.19                |                     |          | 17 | 0 |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 15.16               | 15.14                  | 15.20                |                     |          |    |   |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 15.12               | 15.21                  | 15.09                |                     |          |    |   |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 15.14               | 15.17                  | 15.17                |                     |          |    |   |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 15.19               | 15.16                  | 15.26                |                     |          |    |   |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 15.14               | 15.03                  | 15.11                |                     |          | 17 | 0 |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 15.15               | 15.13                  | 15.17                |                     |          |    |   |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 15.07               | 15.12                  | 15.11                |                     |          |    |   |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 15.15               | 15.07                  | 15.12                |                     |          |    |   |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 15.01               | 15.16                  | 15.03                |                     |          |    |   |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 15.23               | 15.22                  | 15.22                |                     |          | 17 | 0 |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 15.06               | 15.03                  | 15.03                |                     |          |    |   |  |  |  |

| Band 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<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 20850                       | 21100                          | 21350                        |                           |             |  |
| Frequency (MHz) |            |         |           | 2510                        | 2535                           | 2560                         |                           |             |  |
| 20              | QPSK       | 1       | 0         | 11.99                       | 11.98                          | 11.95                        | 13                        | 0           |  |
| 20              | QPSK       | 1       | 49        | 12.08                       | 12.17                          | 12.40                        |                           |             |  |
| 20              | QPSK       | 1       | 99        | 12.02                       | 12.07                          | 12.15                        |                           |             |  |
| 20              | QPSK       | 50      | 0         | 11.93                       | 12.02                          | 12.14                        | 13                        | 0           |  |
| 20              | QPSK       | 50      | 24        | 11.87                       | 12.02                          | 11.91                        |                           |             |  |
| 20              | QPSK       | 50      | 50        | 11.81                       | 11.87                          | 12.13                        |                           |             |  |
| 20              | QPSK       | 100     | 0         | 11.84                       | 11.92                          | 12.06                        | 13                        | 0           |  |
| 20              | 16QAM      | 1       | 0         | 11.75                       | 11.91                          | 12.22                        |                           |             |  |
| 20              | 16QAM      | 1       | 49        | 11.71                       | 11.77                          | 12.05                        |                           |             |  |
| 20              | 16QAM      | 1       | 99        | 11.99                       | 11.96                          | 12.04                        | 13                        | 0           |  |
| 20              | 16QAM      | 50      | 0         | 11.95                       | 12.03                          | 11.95                        |                           |             |  |
| 20              | 16QAM      | 50      | 24        | 12.09                       | 12.10                          | 12.14                        |                           |             |  |
| 20              | 16QAM      | 50      | 50        | 12.05                       | 12.03                          | 12.08                        | 13                        | 0           |  |
| 20              | 16QAM      | 100     | 0         | 12.08                       | 11.85                          | 12.34                        |                           |             |  |
| 20              | 64QAM      | 1       | 0         | 11.81                       | 11.97                          | 11.94                        |                           |             |  |
| 20              | 64QAM      | 1       | 49        | 11.91                       | 12.00                          | 12.19                        | 13                        | 0           |  |
| 20              | 64QAM      | 1       | 99        | 12.14                       | 12.07                          | 12.30                        |                           |             |  |
| 20              | 64QAM      | 50      | 0         | 11.74                       | 12.07                          | 11.94                        |                           |             |  |
| 20              | 64QAM      | 50      | 24        | 11.92                       | 12.05                          | 12.04                        | 13                        | 0           |  |
| 20              | 64QAM      | 50      | 50        | 11.84                       | 11.74                          | 12.11                        |                           |             |  |
| 20              | 64QAM      | 100     | 0         | 11.84                       | 11.98                          | 12.08                        |                           |             |  |
| Channel         |            |         |           | 20825                       | 21100                          | 21375                        | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2507.5                      | 2535                           | 2562.5                       |                           |             |  |
| 15              | QPSK       | 1       | 0         | 11.91                       | 11.92                          | 11.93                        | 13                        | 0           |  |
| 15              | QPSK       | 1       | 37        | 12.16                       | 12.13                          | 12.30                        |                           |             |  |
| 15              | QPSK       | 1       | 74        | 11.88                       | 12.00                          | 12.05                        |                           |             |  |
| 15              | QPSK       | 36      | 0         | 11.94                       | 12.08                          | 12.15                        | 13                        | 0           |  |
| 15              | QPSK       | 36      | 20        | 11.96                       | 12.00                          | 12.02                        |                           |             |  |
| 15              | QPSK       | 36      | 39        | 11.71                       | 11.93                          | 12.16                        |                           |             |  |
| 15              | QPSK       | 75      | 0         | 11.91                       | 11.93                          | 12.14                        | 13                        | 0           |  |
| 15              | 16QAM      | 1       | 0         | 11.73                       | 11.88                          | 12.19                        |                           |             |  |
| 15              | 16QAM      | 1       | 37        | 11.71                       | 11.84                          | 12.20                        |                           |             |  |
| 15              | 16QAM      | 1       | 74        | 11.96                       | 12.01                          | 12.07                        | 13                        | 0           |  |
| 15              | 16QAM      | 36      | 0         | 11.98                       | 11.97                          | 11.98                        |                           |             |  |
| 15              | 16QAM      | 36      | 20        | 11.99                       | 12.01                          | 12.04                        |                           |             |  |
| 15              | 16QAM      | 36      | 39        | 12.02                       | 11.89                          | 12.05                        | 13                        | 0           |  |
| 15              | 16QAM      | 75      | 0         | 11.96                       | 11.88                          | 12.22                        |                           |             |  |
| 15              | 64QAM      | 1       | 0         | 11.84                       | 11.88                          | 11.97                        |                           |             |  |
| 15              | 64QAM      | 1       | 37        | 11.84                       | 12.10                          | 12.12                        | 13                        | 0           |  |
| 15              | 64QAM      | 1       | 74        | 12.09                       | 12.09                          | 12.25                        |                           |             |  |
| 15              | 64QAM      | 36      | 0         | 11.92                       | 11.99                          | 12.12                        |                           |             |  |
| 15              | 64QAM      | 36      | 20        | 11.92                       | 12.06                          | 12.04                        | 13                        | 0           |  |
| 15              | 64QAM      | 36      | 39        | 11.80                       | 11.89                          | 12.07                        |                           |             |  |
| 15              | 64QAM      | 75      | 0         | 11.77                       | 11.95                          | 12.01                        |                           |             |  |
| Channel         |            |         |           | 20800                       | 21100                          | 21400                        | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2505                        | 2535                           | 2565                         |                           |             |  |
| 10              | QPSK       | 1       | 0         | 11.93                       | 11.86                          | 11.90                        | 13                        | 0           |  |
| 10              | QPSK       | 1       | 25        | 12.02                       | 12.20                          | 12.38                        |                           |             |  |
| 10              | QPSK       | 1       | 49        | 12.03                       | 12.13                          | 12.22                        |                           |             |  |
| 10              | QPSK       | 25      | 0         | 11.92                       | 12.01                          | 12.12                        | 13                        | 0           |  |
| 10              | QPSK       | 25      | 12        | 11.97                       | 11.89                          | 12.07                        |                           |             |  |
| 10              | QPSK       | 25      | 25        | 11.87                       | 11.84                          | 12.05                        |                           |             |  |
| 10              | QPSK       | 50      | 0         | 11.93                       | 12.04                          | 12.07                        | 13                        | 0           |  |
| 10              | 16QAM      | 1       | 0         | 11.71                       | 11.89                          | 12.18                        |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 11.90                       | 11.78                          | 12.04                        |                           |             |  |
| 10              | 16QAM      | 1       | 49        | 11.98                       | 11.98                          | 12.06                        | 13                        | 0           |  |
| 10              | 16QAM      | 25      | 0         | 11.96                       | 12.03                          | 11.96                        |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 11.90                       | 12.03                          | 11.95                        |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 12.02                       | 11.95                          | 12.05                        | 13                        | 0           |  |
| 10              | 16QAM      | 50      | 0         | 12.09                       | 11.79                          | 12.35                        |                           |             |  |
| 10              | 64QAM      | 1       | 0         | 11.98                       | 12.02                          | 12.11                        |                           |             |  |
| 10              | 64QAM      | 1       | 25        | 11.80                       | 12.13                          | 12.08                        | 13                        | 0           |  |
| 10              | 64QAM      | 1       | 49        | 11.99                       | 12.01                          | 12.15                        |                           |             |  |
| 10              | 64QAM      | 25      | 0         | 11.74                       | 12.15                          | 11.94                        |                           |             |  |
| 10              | 64QAM      | 25      | 12        | 11.87                       | 11.98                          | 11.99                        | 13                        | 0           |  |
| 10              | 64QAM      | 25      | 25        | 11.83                       | 11.81                          | 12.10                        |                           |             |  |
| 10              | 64QAM      | 50      | 0         | 11.95                       | 12.07                          | 12.19                        |                           |             |  |
| Channel         |            |         |           | 20775                       | 21100                          | 21425                        | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2502.5                      | 2535                           | 2567.5                       |                           |             |  |
| 5               | QPSK       | 1       | 0         | 11.84                       | 11.96                          | 12.07                        | 13                        | 0           |  |
| 5               | QPSK       | 1       | 12        | 12.05                       | 12.11                          | 12.28                        |                           |             |  |
| 5               | QPSK       | 1       | 24        | 12.03                       | 12.05                          | 12.16                        |                           |             |  |
| 5               | QPSK       | 12      | 0         | 11.97                       | 12.12                          | 12.18                        | 13                        | 0           |  |
| 5               | QPSK       | 12      | 7         | 12.06                       | 11.96                          | 11.93                        |                           |             |  |
| 5               | QPSK       | 12      | 13        | 11.85                       | 11.92                          | 12.04                        |                           |             |  |
| 5               | QPSK       | 25      | 0         | 11.87                       | 11.95                          | 12.20                        | 13                        | 0           |  |
| 5               | 16QAM      | 1       | 0         | 11.72                       | 11.83                          | 12.19                        |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 11.89                       | 11.75                          | 12.05                        |                           |             |  |
| 5               | 16QAM      | 1       | 24        | 12.00                       | 12.12                          | 12.05                        | 13                        | 0           |  |
| 5               | 16QAM      | 12      | 0         | 12.02                       | 12.10                          | 12.02                        |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 12.05                       | 12.08                          | 12.10                        |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 12.19                       | 11.92                          | 12.22                        | 13                        | 0           |  |
| 5               | 16QAM      | 25      | 0         | 11.95                       | 11.83                          | 12.21                        |                           |             |  |
| 5               | 64QAM      | 1       | 0         | 11.85                       | 11.98                          | 11.98                        |                           |             |  |
| 5               | 64QAM      | 1       | 12        | 11.98                       | 12.14                          | 12.26                        | 13                        | 0           |  |
| 5               | 64QAM      | 1       | 24        | 12.13                       | 12.03                          | 12.29                        |                           |             |  |
| 5               | 64QAM      | 12      | 0         | 11.87                       | 12.06                          | 12.07                        |                           |             |  |
| 5               | 64QAM      | 12      | 7         | 11.95                       | 11.91                          | 12.07                        | 13                        | 0           |  |
| 5               | 64QAM      | 12      | 13        | 11.86                       | 11.81                          | 12.13                        |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 11.94                       | 11.92                          | 12.18                        |                           |             |  |

| Band 13         |            |         |           |                       |                          |                        |                     |          |  |          |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|----------|
| 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         |            |         |           | 23230                 |                          |                        |                     |          |  |          |
| Frequency (MHz) |            |         |           | 762                   |                          |                        |                     |          |  |          |
| 10              | QPSK       | 1       | 0         | 22.63                 |                          |                        | 24                  | 0        |  |          |
| 10              | QPSK       | 1       | 25        | 22.64                 |                          |                        |                     |          |  |          |
| 10              | QPSK       | 1       | 49        | 22.75                 |                          |                        |                     |          |  |          |
| 10              | QPSK       | 25      | 0         | 21.80                 |                          |                        |                     |          |  |          |
| 10              | QPSK       | 25      | 12        | 21.75                 |                          |                        | 23                  | 1        |  |          |
| 10              | QPSK       | 25      | 25        | 21.71                 |                          |                        |                     |          |  |          |
| 10              | QPSK       | 50      | 0         | 21.76                 |                          |                        |                     |          |  |          |
| 10              | 16QAM      | 1       | 0         | 21.86                 |                          |                        |                     |          |  |          |
| 10              | 16QAM      | 1       | 25        | 22.07                 |                          |                        | 23                  | 1        |  |          |
| 10              | 16QAM      | 1       | 49        | 22.04                 |                          |                        |                     |          |  |          |
| 10              | 16QAM      | 25      | 0         | 20.76                 |                          |                        |                     |          |  |          |
| 10              | 16QAM      | 25      | 12        | 20.85                 |                          |                        |                     |          |  |          |
| 10              | 16QAM      | 25      | 25        | 20.85                 |                          |                        | 22                  | 2        |  |          |
| 10              | 16QAM      | 50      | 0         | 20.81                 |                          |                        |                     |          |  |          |
| 10              | 64QAM      | 1       | 0         | 20.85                 |                          |                        |                     |          |  |          |
| 10              | 64QAM      | 1       | 25        | 21.05                 |                          |                        |                     |          |  |          |
| 10              | 64QAM      | 1       | 49        | 20.98                 |                          |                        | 22                  | 2        |  |          |
| 10              | 64QAM      | 25      | 0         | 19.75                 |                          |                        |                     |          |  |          |
| 10              | 64QAM      | 25      | 12        | 19.87                 |                          |                        |                     |          |  |          |
| 10              | 64QAM      | 25      | 25        | 19.87                 |                          |                        |                     |          |  |          |
| 10              | 64QAM      | 50      | 0         | 19.81                 |                          |                        | 21                  | 3        |  |          |
| Channel         |            |         |           | 23205                 | 23230                    | 23255                  | Tune-up limit (dBm) |          |  | MPR (dB) |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |                     |          |  |          |
| 5               | QPSK       | 1       | 0         | 22.53                 | 22.53                    | 22.59                  | 24                  | 0        |  |          |
| 5               | QPSK       | 1       | 12        | 22.75                 | 22.76                    | 22.81                  |                     |          |  |          |
| 5               | QPSK       | 1       | 24        | 22.66                 | 22.66                    | 22.65                  |                     |          |  |          |
| 5               | QPSK       | 12      | 0         | 21.77                 | 21.75                    | 21.75                  |                     |          |  |          |
| 5               | QPSK       | 12      | 7         | 21.68                 | 21.65                    | 21.67                  | 23                  | 1        |  |          |
| 5               | QPSK       | 12      | 13        | 21.62                 | 21.61                    | 21.61                  |                     |          |  |          |
| 5               | QPSK       | 25      | 0         | 21.66                 | 21.70                    | 21.72                  |                     |          |  |          |
| 5               | 16QAM      | 1       | 0         | 21.81                 | 21.76                    | 21.83                  |                     |          |  |          |
| 5               | 16QAM      | 1       | 12        | 22.04                 | 21.98                    | 22.02                  | 23                  | 1        |  |          |
| 5               | 16QAM      | 1       | 24        | 21.96                 | 21.99                    | 21.99                  | 22                  | 2        |  |          |
| 5               | 16QAM      | 12      | 0         | 20.66                 | 20.68                    | 20.69                  |                     |          |  |          |
| 5               | 16QAM      | 12      | 7         | 20.76                 | 20.75                    | 20.76                  |                     |          |  |          |
| 5               | 16QAM      | 12      | 13        | 20.81                 | 20.83                    | 20.76                  |                     |          |  |          |
| 5               | 16QAM      | 25      | 0         | 20.71                 | 20.74                    | 20.74                  | 22                  | 2        |  |          |
| 5               | 64QAM      | 1       | 0         | 20.77                 | 20.79                    | 20.79                  |                     |          |  |          |
| 5               | 64QAM      | 1       | 12        | 21.02                 | 20.96                    | 21.02                  |                     |          |  |          |
| 5               | 64QAM      | 1       | 24        | 20.92                 | 20.91                    | 20.90                  |                     |          |  |          |
| 5               | 64QAM      | 12      | 0         | 19.72                 | 19.70                    | 19.68                  | 21                  | 3        |  |          |
| 5               | 64QAM      | 12      | 7         | 19.77                 | 19.84                    | 19.76                  |                     |          |  |          |
| 5               | 64QAM      | 12      | 13        | 19.82                 | 19.77                    | 19.79                  |                     |          |  |          |
| 5               | 64QAM      | 25      | 0         | 19.74                 | 19.71                    | 19.76                  |                     |          |  |          |



| Band 26         |            |         |           |                       |                          |                        |                     |          |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|--|
| 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         |            |         |           | 26765                 | 26865                    | 26965                  |                     |          |  |  |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |          |  |  |
| 15              | QPSK       | 1       | 0         | 21.32                 | 21.37                    | 21.29                  | 23                  | 0        |  |  |
| 15              | QPSK       | 1       | 37        | 21.52                 | 21.42                    | 21.41                  |                     |          |  |  |
| 15              | QPSK       | 1       | 74        | 21.10                 | 21.19                    | 21.36                  |                     |          |  |  |
| 15              | QPSK       | 36      | 0         | 21.43                 | 21.22                    | 21.08                  |                     |          |  |  |
| 15              | QPSK       | 36      | 20        | 21.20                 | 21.22                    | 21.37                  | 23                  | 0        |  |  |
| 15              | QPSK       | 36      | 39        | 21.12                 | 21.16                    | 21.16                  |                     |          |  |  |
| 15              | QPSK       | 75      | 0         | 21.33                 | 21.19                    | 21.19                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 0         | 21.43                 | 21.31                    | 21.37                  |                     |          |  |  |
| 15              | 16QAM      | 1       | 37        | 21.14                 | 21.06                    | 21.18                  | 23                  | 0        |  |  |
| 15              | 16QAM      | 1       | 74        | 21.23                 | 21.10                    | 21.09                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 0         | 20.48                 | 20.31                    | 20.40                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 20        | 20.31                 | 20.26                    | 20.26                  |                     |          |  |  |
| 15              | 16QAM      | 36      | 39        | 20.30                 | 20.23                    | 20.19                  | 22                  | 1        |  |  |
| 15              | 16QAM      | 75      | 0         | 20.38                 | 20.15                    | 20.26                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 0         | 20.67                 | 20.43                    | 20.51                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 37        | 20.64                 | 20.60                    | 20.63                  |                     |          |  |  |
| 15              | 64QAM      | 1       | 74        | 20.27                 | 20.31                    | 20.48                  | 21                  | 2        |  |  |
| 15              | 64QAM      | 36      | 0         | 19.53                 | 19.32                    | 19.48                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 20        | 19.36                 | 19.24                    | 19.34                  |                     |          |  |  |
| 15              | 64QAM      | 36      | 39        | 19.43                 | 19.21                    | 19.31                  |                     |          |  |  |
| 15              | 64QAM      | 75      | 0         | 19.35                 | 19.33                    | 19.24                  |                     |          |  |  |
| Channel         |            |         |           | 26740                 | 26865                    | 26990                  | Tune-up limit (dbm) | MPR (db) |  |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |          |  |  |
| 10              | QPSK       | 1       | 0         | 21.27                 | 21.17                    | 21.17                  | 23                  | 0        |  |  |
| 10              | QPSK       | 1       | 25        | 21.45                 | 21.25                    | 21.45                  |                     |          |  |  |
| 10              | QPSK       | 1       | 49        | 21.27                 | 21.11                    | 21.23                  |                     |          |  |  |
| 10              | QPSK       | 25      | 0         | 21.05                 | 21.04                    | 21.12                  |                     |          |  |  |
| 10              | QPSK       | 25      | 12        | 21.31                 | 21.13                    | 21.22                  | 23                  | 0        |  |  |
| 10              | QPSK       | 25      | 25        | 21.19                 | 21.09                    | 21.15                  |                     |          |  |  |
| 10              | QPSK       | 50      | 0         | 21.18                 | 21.07                    | 21.13                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 0         | 21.34                 | 21.16                    | 21.19                  |                     |          |  |  |
| 10              | 16QAM      | 1       | 25        | 21.13                 | 21.13                    | 21.10                  | 23                  | 0        |  |  |
| 10              | 16QAM      | 1       | 49        | 21.15                 | 21.07                    | 21.14                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 0         | 20.31                 | 20.21                    | 20.23                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 12        | 20.24                 | 20.18                    | 20.19                  |                     |          |  |  |
| 10              | 16QAM      | 25      | 25        | 20.21                 | 20.15                    | 20.10                  | 22                  | 1        |  |  |
| 10              | 16QAM      | 50      | 0         | 20.21                 | 20.01                    | 20.09                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 0         | 20.67                 | 20.38                    | 20.51                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 25        | 20.54                 | 20.55                    | 20.53                  |                     |          |  |  |
| 10              | 64QAM      | 1       | 49        | 20.24                 | 20.22                    | 20.45                  | 22                  | 1        |  |  |
| 10              | 64QAM      | 25      | 0         | 19.40                 | 19.24                    | 19.35                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 12        | 19.35                 | 19.18                    | 19.33                  |                     |          |  |  |
| 10              | 64QAM      | 25      | 25        | 19.26                 | 19.08                    | 19.14                  |                     |          |  |  |
| 10              | 64QAM      | 50      | 0         | 19.22                 | 19.17                    | 19.11                  |                     |          |  |  |
| Channel         |            |         |           | 26715                 | 26865                    | 27015                  | Tune-up limit (dbm) | MPR (db) |  |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |          |  |  |
| 5               | QPSK       | 1       | 0         | 21.30                 | 21.10                    | 21.11                  | 23                  | 0        |  |  |
| 5               | QPSK       | 1       | 12        | 21.37                 | 21.39                    | 21.41                  |                     |          |  |  |
| 5               | QPSK       | 1       | 24        | 21.13                 | 21.23                    | 21.28                  |                     |          |  |  |
| 5               | QPSK       | 12      | 0         | 21.14                 | 21.05                    | 21.08                  |                     |          |  |  |
| 5               | QPSK       | 12      | 7         | 21.27                 | 21.17                    | 21.19                  | 23                  | 0        |  |  |
| 5               | QPSK       | 12      | 13        | 21.16                 | 21.05                    | 21.14                  |                     |          |  |  |
| 5               | QPSK       | 25      | 0         | 21.33                 | 21.16                    | 21.14                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 0         | 21.24                 | 21.30                    | 21.23                  |                     |          |  |  |
| 5               | 16QAM      | 1       | 12        | 21.16                 | 21.02                    | 21.15                  | 23                  | 0        |  |  |
| 5               | 16QAM      | 1       | 24        | 21.19                 | 21.09                    | 21.14                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 0         | 20.33                 | 20.22                    | 20.25                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 7         | 20.31                 | 20.23                    | 20.26                  |                     |          |  |  |
| 5               | 16QAM      | 12      | 13        | 20.19                 | 20.22                    | 20.08                  | 22                  | 1        |  |  |
| 5               | 16QAM      | 25      | 0         | 20.33                 | 20.16                    | 20.21                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 0         | 20.58                 | 20.28                    | 20.42                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 12        | 20.57                 | 20.45                    | 20.56                  |                     |          |  |  |
| 5               | 64QAM      | 1       | 24        | 20.19                 | 20.31                    | 20.40                  | 22                  | 1        |  |  |
| 5               | 64QAM      | 12      | 0         | 19.44                 | 19.30                    | 19.39                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 7         | 19.18                 | 19.07                    | 19.16                  |                     |          |  |  |
| 5               | 64QAM      | 12      | 13        | 19.28                 | 19.08                    | 19.19                  |                     |          |  |  |
| 5               | 64QAM      | 25      | 0         | 19.21                 | 19.20                    | 19.10                  |                     |          |  |  |
| Channel         |            |         |           | 26705                 | 26865                    | 27025                  | Tune-up limit (dbm) | MPR (db) |  |  |
| Frequency (MHz) |            |         |           | 815.5                 | 831.5                    | 847.5                  |                     |          |  |  |
| 3               | QPSK       | 1       | 0         | 21.33                 | 21.14                    | 21.18                  | 23                  | 0        |  |  |
| 3               | QPSK       | 1       | 5         | 21.44                 | 21.28                    | 21.41                  |                     |          |  |  |
| 3               | QPSK       | 1       | 14        | 21.08                 | 21.15                    | 21.14                  |                     |          |  |  |
| 3               | QPSK       | 8       | 0         | 21.09                 | 21.07                    | 21.16                  |                     |          |  |  |
| 3               | QPSK       | 8       | 4         | 21.27                 | 21.07                    | 21.26                  | 23                  | 0        |  |  |
| 3               | QPSK       | 8       | 7         | 21.11                 | 21.10                    | 21.06                  |                     |          |  |  |
| 3               | QPSK       | 15      | 0         | 21.28                 | 21.15                    | 21.09                  |                     |          |  |  |
| 3               | 16QAM      | 1       | 0         | 21.29                 | 21.30                    | 21.25                  |                     |          |  |  |
| 3               | 16QAM      | 1       | 8         | 21.03                 | 21.16                    | 21.05                  | 23                  | 0        |  |  |
| 3               | 16QAM      | 1       | 14        | 21.18                 | 21.05                    | 21.06                  |                     |          |  |  |
| 3               | 16QAM      | 8       | 0         | 20.37                 | 20.18                    | 20.29                  |                     |          |  |  |
| 3               | 16QAM      | 8       | 4         | 20.26                 | 20.07                    | 20.23                  |                     |          |  |  |
| 3               | 16QAM      | 8       | 7         | 20.22                 | 20.16                    | 20.11                  | 22                  | 1        |  |  |
| 3               | 16QAM      | 15      | 0         | 20.27                 | 20.09                    | 20.15                  |                     |          |  |  |
| 3               | 64QAM      | 1       | 0         | 20.59                 | 20.31                    | 20.43                  |                     |          |  |  |
| 3               | 64QAM      | 1       | 8         | 20.48                 | 20.46                    | 20.47                  |                     |          |  |  |
| 3               | 64QAM      | 1       | 14        | 20.08                 | 20.27                    | 20.29                  | 21                  | 2        |  |  |
| 3               | 64QAM      | 8       | 0         | 19.38                 | 19.17                    | 19.33                  |                     |          |  |  |
| 3               | 64QAM      | 8       | 4         | 19.26                 | 19.06                    | 19.24                  |                     |          |  |  |
| 3               | 64QAM      | 8       | 7         | 19.27                 | 19.14                    | 19.15                  |                     |          |  |  |
| 3               | 64QAM      | 15      | 0         | 19.26                 | 19.10                    | 19.15                  |                     |          |  |  |
| Channel         |            |         |           | 26697                 | 26865                    | 27033                  | Tune-up limit (dbm) | MPR (db) |  |  |
| Frequency (MHz) |            |         |           | 814.7                 | 831.5                    | 848.3                  |                     |          |  |  |
| 1.4             | QPSK       | 1       | 0         | 21.30                 | 21.09                    | 21.23                  | 23                  | 0        |  |  |
| 1.4             | QPSK       | 1       | 3         | 21.40                 | 21.39                    | 21.29                  |                     |          |  |  |
| 1.4             | QPSK       | 1       | 5         | 21.15                 | 21.08                    | 21.25                  |                     |          |  |  |
| 1.4             | QPSK       | 3       | 0         | 21.16                 | 21.12                    | 21.02                  |                     |          |  |  |
| 1.4             | QPSK       | 3       | 1         | 21.26                 | 21.14                    | 21.35                  | 23                  | 0        |  |  |
| 1.4             | QPSK       | 3       | 3         | 21.10                 | 21.07                    | 21.06                  |                     |          |  |  |
| 1.4             | QPSK       | 6       | 0         | 21.25                 | 21.02                    | 21.04                  |                     |          |  |  |
| 1.4             | 16QAM      | 1       | 0         | 21.39                 | 21.18                    | 21.19                  |                     |          |  |  |
| 1.4             | 16QAM      | 1       | 3         | 21.19                 | 21.21                    | 21.26                  | 23                  | 0        |  |  |
| 1.4             | 16QAM      | 1       | 5         | 21.38                 | 21.18                    | 21.20                  |                     |          |  |  |
| 1.4             | 16QAM      | 3       | 0         | 21.39                 | 21.13                    | 21.31                  |                     |          |  |  |
| 1.4             | 16QAM      | 3       | 1         | 21.23                 | 21.18                    | 21.10                  |                     |          |  |  |
| 1.4             | 16QAM      | 3       | 3         | 21.17                 | 21.15                    | 21.06                  | 22                  | 1        |  |  |
| 1.4             | 16QAM      | 6       | 0         | 20.25                 | 20.12                    | 20.13                  |                     |          |  |  |
| 1.4             | 64QAM      | 1       | 0         | 20.64                 | 20.39                    | 20.48                  |                     |          |  |  |
| 1.4             | 64QAM      | 1       | 3         | 20.59                 | 20.54                    | 20.58                  |                     |          |  |  |
| 1.4             | 64QAM      | 1       | 5         | 20.21                 | 20.24                    | 20.42                  | 22                  | 1        |  |  |
| 1.4             | 64QAM      | 3       | 0         | 20.53                 | 20.31                    | 20.48                  |                     |          |  |  |
| 1.4             | 64QAM      | 3       | 1         | 20.17                 | 20.12                    | 20.15                  |                     |          |  |  |
| 1.4             | 64QAM      | 3       | 3         | 20.38                 | 20.15                    | 20.26                  |                     |          |  |  |
| 1.4             | 64QAM      | 6       | 0         | 19.21                 | 19.21                    | 19.10                  | 21                  | 2        |  |  |

| Band 66         |            |         |           |                          |                             |                           |                           |             |  |                           |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|---------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |                           |             |  |
| Channel         |            |         |           | 13072                    | 13232                       | 13257                     |                           |             |  |                           |             |  |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                           |             |  |                           |             |  |
| 20              | QPSK       | 1       | 0         | 12.71                    | 12.87                       | 12.70                     | 14                        | 0           |  |                           |             |  |
| 20              | QPSK       | 1       | 49        | 12.82                    | 12.95                       | 12.91                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 1       | 99        | 12.38                    | 12.57                       | 12.39                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 50      | 0         | 12.72                    | 12.75                       | 12.55                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 50      | 24        | 12.53                    | 12.54                       | 12.56                     | 14                        | 0           |  |                           |             |  |
| 20              | QPSK       | 50      | 50        | 12.62                    | 12.64                       | 12.49                     |                           |             |  |                           |             |  |
| 20              | QPSK       | 100     | 0         | 12.48                    | 12.62                       | 12.28                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 1       | 0         | 12.55                    | 12.75                       | 12.59                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 1       | 49        | 12.38                    | 12.26                       | 12.43                     | 14                        | 0           |  |                           |             |  |
| 20              | 16QAM      | 1       | 99        | 12.40                    | 12.41                       | 12.41                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 50      | 0         | 12.77                    | 12.71                       | 12.75                     | 14                        | 0           |  |                           |             |  |
| 20              | 16QAM      | 50      | 24        | 12.34                    | 12.20                       | 12.37                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 50      | 50        | 12.57                    | 12.25                       | 12.51                     |                           |             |  |                           |             |  |
| 20              | 16QAM      | 100     | 0         | 12.70                    | 12.80                       | 12.68                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 1       | 0         | 12.48                    | 12.59                       | 12.51                     | 14                        | 0           |  |                           |             |  |
| 20              | 64QAM      | 1       | 49        | 12.68                    | 12.59                       | 12.62                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 1       | 99        | 12.72                    | 12.58                       | 12.70                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 50      | 0         | 12.49                    | 12.49                       | 12.52                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 50      | 24        | 12.53                    | 12.48                       | 12.57                     | 14                        | 0           |  |                           |             |  |
| 20              | 64QAM      | 50      | 50        | 12.79                    | 12.58                       | 12.77                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 100     | 0         | 12.70                    | 12.39                       | 12.47                     |                           |             |  |                           |             |  |
| 20              | 64QAM      | 100     | 0         | 13.044                   | 13.232                      | 13.257                    |                           |             |  |                           |             |  |
| Channel         |            |         |           | 13047                    | 13232                       | 13267                     | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |                           |             |  |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                           |             |  |                           |             |  |
| 15              | QPSK       | 1       | 0         | 12.61                    | 12.56                       | 12.66                     | 14                        | 0           |  |                           |             |  |
| 15              | QPSK       | 1       | 37        | 12.89                    | 12.83                       | 12.93                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 1       | 74        | 12.38                    | 12.71                       | 12.91                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 36      | 0         | 12.73                    | 12.78                       | 12.65                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 36      | 20        | 12.49                    | 12.54                       | 12.51                     | 14                        | 0           |  |                           |             |  |
| 15              | QPSK       | 36      | 39        | 12.50                    | 12.59                       | 12.59                     |                           |             |  |                           |             |  |
| 15              | QPSK       | 75      | 0         | 12.43                    | 12.56                       | 12.31                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 1       | 0         | 12.46                    | 12.67                       | 12.48                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 1       | 37        | 12.30                    | 12.23                       | 12.47                     | 14                        | 0           |  |                           |             |  |
| 15              | 16QAM      | 1       | 74        | 12.40                    | 12.54                       | 12.25                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 36      | 0         | 12.73                    | 12.87                       | 12.71                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 36      | 20        | 12.32                    | 12.29                       | 12.35                     |                           |             |  |                           |             |  |
| 15              | 16QAM      | 39      | 29        | 12.57                    | 12.27                       | 12.51                     | 14                        | 0           |  |                           |             |  |
| 15              | 16QAM      | 75      | 0         | 12.69                    | 12.75                       | 12.67                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 0         | 12.45                    | 12.57                       | 12.57                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 37        | 12.66                    | 12.52                       | 12.60                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 1       | 74        | 12.60                    | 12.72                       | 12.58                     | 14                        | 0           |  |                           |             |  |
| 15              | 64QAM      | 36      | 0         | 12.39                    | 12.52                       | 12.42                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 36      | 20        | 12.64                    | 12.63                       | 12.58                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 36      | 39        | 12.63                    | 12.50                       | 12.61                     |                           |             |  |                           |             |  |
| 15              | 64QAM      | 75      | 0         | 12.25                    | 12.35                       | 12.28                     | 14                        | 0           |  |                           |             |  |
| Channel         |            |         |           | 13062                    | 13232                       | 13267                     |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      |                           |             |  |                           |             |  |
| 10              | QPSK       | 1       | 0         | 12.71                    | 12.54                       | 12.71                     |                           |             |  | 14                        | 0           |  |
| 10              | QPSK       | 1       | 25        | 12.79                    | 12.91                       | 12.93                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 1       | 49        | 12.39                    | 12.60                       | 12.33                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 25      | 0         | 12.66                    | 12.77                       | 12.58                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 25      | 12        | 12.58                    | 12.61                       | 12.47                     | 14                        | 0           |  |                           |             |  |
| 10              | QPSK       | 25      | 25        | 12.62                    | 12.55                       | 12.48                     |                           |             |  |                           |             |  |
| 10              | QPSK       | 50      | 0         | 12.30                    | 12.64                       | 12.38                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 1       | 0         | 12.44                    | 12.67                       | 12.58                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 12.48                    | 12.33                       | 12.43                     | 14                        | 0           |  |                           |             |  |
| 10              | 16QAM      | 1       | 49        | 12.42                    | 12.54                       | 12.27                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 0         | 12.73                    | 12.79                       | 12.71                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 12.44                    | 12.31                       | 12.47                     |                           |             |  |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 12.70                    | 12.33                       | 12.64                     | 14                        | 0           |  |                           |             |  |
| 10              | 16QAM      | 50      | 0         | 12.62                    | 12.77                       | 12.60                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 0         | 12.42                    | 12.43                       | 12.45                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 25        | 12.68                    | 12.52                       | 12.62                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 1       | 49        | 12.71                    | 12.67                       | 12.69                     | 14                        | 0           |  |                           |             |  |
| 10              | 64QAM      | 25      | 0         | 12.39                    | 12.50                       | 12.42                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 25      | 12        | 12.59                    | 12.65                       | 12.53                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 25      | 25        | 12.69                    | 12.43                       | 12.67                     |                           |             |  |                           |             |  |
| 10              | 64QAM      | 50      | 0         | 12.39                    | 12.31                       | 12.42                     | 14                        | 0           |  |                           |             |  |
| Channel         |            |         |           | 13197                    | 13232                       | 13267                     |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    |                           |             |  |                           |             |  |
| 5               | QPSK       | 1       | 0         | 12.64                    | 12.64                       | 12.63                     |                           |             |  | 14                        | 0           |  |
| 5               | QPSK       | 1       | 12        | 12.93                    | 12.39                       | 12.76                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 1       | 24        | 12.34                    | 12.84                       | 12.34                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 12      | 0         | 12.78                    | 12.65                       | 12.73                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 12      | 7         | 12.52                    | 12.63                       | 12.47                     | 14                        | 0           |  |                           |             |  |
| 5               | QPSK       | 12      | 13        | 12.51                    | 12.50                       | 12.64                     |                           |             |  |                           |             |  |
| 5               | QPSK       | 25      | 0         | 12.45                    | 12.59                       | 12.27                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 12.50                    | 12.78                       | 12.60                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 12.33                    | 12.34                       | 12.41                     | 14                        | 0           |  |                           |             |  |
| 5               | 16QAM      | 1       | 24        | 12.42                    | 12.46                       | 12.41                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 12      | 0         | 12.72                    | 12.76                       | 12.70                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 12.40                    | 12.38                       | 12.43                     |                           |             |  |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 12.55                    | 12.27                       | 12.49                     | 14                        | 0           |  |                           |             |  |
| 5               | 16QAM      | 25      | 0         | 12.74                    | 12.78                       | 12.72                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 1       | 0         | 12.51                    | 12.54                       | 12.54                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 1       | 12        | 12.60                    | 12.50                       | 12.54                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 1       | 24        | 12.68                    | 12.67                       | 12.66                     | 14                        | 0           |  |                           |             |  |
| 5               | 64QAM      | 12      | 0         | 12.50                    | 12.52                       | 12.53                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 12      | 7         | 12.54                    | 12.62                       | 12.48                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 12      | 13        | 12.71                    | 12.51                       | 12.69                     |                           |             |  |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 12.44                    | 12.40                       | 12.47                     | 14                        | 0           |  |                           |             |  |
| Channel         |            |         |           | 131987                   | 132322                      | 132687                    |                           |             |  | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1711.5                   | 1745                        | 1778.5                    |                           |             |  |                           |             |  |
| 3               | QPSK       | 1       | 0         | 12.73                    | 12.50                       | 12.71                     |                           |             |  | 14                        | 0           |  |
| 3               | QPSK       | 1       | 8         | 12.89                    | 12.68                       | 12.85                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 1       | 14        | 12.47                    | 12.63                       | 12.39                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 8       | 0         | 12.76                    | 12.54                       | 12.55                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 8       | 4         | 12.55                    | 12.48                       | 12.48                     | 14                        | 0           |  |                           |             |  |
| 3               | QPSK       | 8       | 7         | 12.51                    | 12.49                       | 12.51                     |                           |             |  |                           |             |  |
| 3               | QPSK       | 15      | 0         | 12.34                    | 12.65                       | 12.58                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 1       | 0         | 12.52                    | 12.74                       | 12.58                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 1       | 8         | 12.30                    | 12.24                       | 12.52                     | 14                        | 0           |  |                           |             |  |
| 3               | 16QAM      | 1       | 14        | 12.44                    | 12.37                       | 12.41                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 8       | 0         | 12.66                    | 12.74                       | 12.64                     |                           |             |  |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 12.43                    | 12.31                       | 12.46                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 7         | 12.62                    | 12.24                       | 12.56                     | 14                        | 0           |  |                           |             |  |
| 3               | 16QAM      | 15      | 0         | 12.64                    | 12.94                       | 12.62                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 8         | 12.67                    | 12.48                       | 12.61                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 1       | 14        | 12.69                    | 12.60                       | 12.67                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 8       | 0         | 12.36                    | 12.35                       | 12.39                     | 14                        | 0           |  |                           |             |  |
| 3               | 64QAM      | 8       | 4         | 12.62                    | 12.56                       | 12.58                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 8       | 7         | 12.79                    | 12.44                       | 12.77                     |                           |             |  |                           |             |  |
| 3               | 64QAM      | 15      | 0         | 12.36                    | 12.49                       | 12.39                     |                           |             |  |                           |             |  |
| Channel         |            |         |           | 131979                   | 132322                      | 132695                    | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |                           |             |  |
| Frequency (MHz) |            |         |           | 1710.5                   | 1745                        | 1779.5                    |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 1       | 0         | 12.74                    | 12.59                       | 12.59                     | 14                        | 0           |  |                           |             |  |
| 1.4             | QPSK       | 1       | 3         | 12.92                    | 12.90                       | 12.88                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 1       | 5         | 12.29                    | 12.66                       | 12.48                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 3       | 0         | 12.73                    | 12.67                       | 12.56                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 3       | 1         | 12.39                    | 12.49                       | 12.41                     | 14                        | 0           |  |                           |             |  |
| 1.4             | QPSK       | 3       | 3         | 12.54                    | 12.57                       | 12.54                     |                           |             |  |                           |             |  |
| 1.4             | QPSK       | 6       | 0         | 12.40                    | 12.69                       | 12.30                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 0         | 12.55                    | 12.70                       | 12.55                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 3         | 12.37                    | 12.40                       | 12.45                     | 14                        | 0           |  |                           |             |  |
| 1.4             | 16QAM      | 1       | 5         | 12.44                    | 12.45                       | 12.40                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 0         | 12.73                    | 12.77                       | 12.71                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 1         | 12.51                    | 12.25                       | 12.29                     |                           |             |  |                           |             |  |
| 1.4             | 16QAM      | 3       | 3         | 12.53                    | 12.61                       | 12.47                     | 14                        | 0           |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 0         | 12.67                    | 12.85                       | 12.65                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 0         | 12.51                    | 12.55                       | 12.54                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 3         | 12.58                    | 12.51                       | 12.52                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 1       | 5         | 12.63                    | 12.58                       | 12.61                     | 14                        | 0           |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 0         | 12.52                    | 12.38                       | 12.55                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 3         | 12.53                    | 12.61                       | 12.47                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 3       | 3         | 12.60                    | 12.46                       | 12.58                     |                           |             |  |                           |             |  |
| 1.4             | 64QAM      | 6       | 0         | 12.42                    | 12.49                       | 12.45                     | 14                        | 0           |  |                           |             |  |

| Band 38         |            |         |           |                       |                          |                        |                     |           |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|-----------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dbm) | MPRR (db) |  |
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |           |  |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |           |  |
| 20              | QPSK       | 1       | 0         | 14.78                 | 14.63                    | 14.71                  | 16                  | 0         |  |
| 20              | QPSK       | 1       | 49        | 15.12                 | 15.17                    | 15.06                  |                     |           |  |
| 20              | QPSK       | 1       | 99        | 14.76                 | 14.70                    | 14.74                  |                     |           |  |
| 20              | QPSK       | 50      | 0         | 14.70                 | 14.79                    | 14.78                  | 16                  | 0         |  |
| 20              | QPSK       | 50      | 24        | 14.66                 | 14.78                    | 14.70                  |                     |           |  |
| 20              | QPSK       | 50      | 50        | 14.44                 | 14.62                    | 14.66                  |                     |           |  |
| 20              | QPSK       | 100     | 0         | 14.51                 | 14.56                    | 14.41                  | 16                  | 0         |  |
| 20              | 16QAM      | 1       | 0         | 14.73                 | 14.91                    | 14.86                  |                     |           |  |
| 20              | 16QAM      | 1       | 49        | 14.75                 | 14.58                    | 14.66                  |                     |           |  |
| 20              | 16QAM      | 1       | 99        | 14.52                 | 14.57                    | 14.55                  | 16                  | 0         |  |
| 20              | 16QAM      | 50      | 0         | 14.67                 | 14.73                    | 14.71                  |                     |           |  |
| 20              | 16QAM      | 50      | 24        | 14.51                 | 14.48                    | 14.49                  |                     |           |  |
| 20              | 16QAM      | 50      | 50        | 14.56                 | 14.40                    | 14.43                  | 16                  | 0         |  |
| 20              | 16QAM      | 100     | 0         | 14.92                 | 14.71                    | 14.96                  |                     |           |  |
| 20              | 64QAM      | 1       | 0         | 14.45                 | 14.72                    | 14.62                  |                     |           |  |
| 20              | 64QAM      | 1       | 49        | 14.31                 | 14.42                    | 14.42                  | 16                  | 0         |  |
| 20              | 64QAM      | 1       | 99        | 14.90                 | 14.81                    | 14.94                  |                     |           |  |
| 20              | 64QAM      | 50      | 0         | 14.36                 | 14.45                    | 14.53                  |                     |           |  |
| 20              | 64QAM      | 50      | 24        | 14.50                 | 14.42                    | 14.61                  | 16                  | 0         |  |
| 20              | 64QAM      | 50      | 50        | 14.79                 | 14.82                    | 14.83                  |                     |           |  |
| 20              | 64QAM      | 100     | 0         | 14.25                 | 14.75                    | 14.42                  |                     |           |  |
| Channel         |            |         |           | 37725                 | 38000                    | 38275                  | Tune-up limit       | MPRR      |  |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 | (dbm)               | (db)      |  |
| 15              | QPSK       | 1       | 0         | 14.78                 | 14.68                    | 14.76                  | 16                  | 0         |  |
| 15              | QPSK       | 1       | 37        | 15.07                 | 15.05                    | 15.08                  |                     |           |  |
| 15              | QPSK       | 1       | 74        | 14.82                 | 14.67                    | 14.63                  |                     |           |  |
| 15              | QPSK       | 36      | 0         | 14.74                 | 14.91                    | 14.70                  | 16                  | 0         |  |
| 15              | QPSK       | 36      | 20        | 14.65                 | 14.74                    | 14.81                  |                     |           |  |
| 15              | QPSK       | 36      | 39        | 14.43                 | 14.60                    | 14.67                  |                     |           |  |
| 15              | QPSK       | 75      | 0         | 14.49                 | 14.64                    | 14.55                  | 16                  | 0         |  |
| 15              | 16QAM      | 1       | 0         | 14.88                 | 14.97                    | 14.76                  |                     |           |  |
| 15              | 16QAM      | 1       | 37        | 14.72                 | 14.61                    | 14.70                  |                     |           |  |
| 15              | 16QAM      | 1       | 74        | 14.46                 | 14.69                    | 14.48                  | 16                  | 0         |  |
| 15              | 16QAM      | 36      | 0         | 14.61                 | 14.72                    | 14.65                  |                     |           |  |
| 15              | 16QAM      | 36      | 20        | 14.58                 | 14.55                    | 14.56                  |                     |           |  |
| 15              | 16QAM      | 36      | 39        | 14.50                 | 14.46                    | 14.37                  | 16                  | 0         |  |
| 15              | 16QAM      | 75      | 0         | 14.96                 | 14.81                    | 15.00                  |                     |           |  |
| 15              | 64QAM      | 1       | 0         | 14.42                 | 14.61                    | 14.59                  |                     |           |  |
| 15              | 64QAM      | 1       | 37        | 14.39                 | 14.50                    | 14.50                  | 16                  | 0         |  |
| 15              | 64QAM      | 1       | 74        | 14.78                 | 14.87                    | 14.82                  |                     |           |  |
| 15              | 64QAM      | 36      | 0         | 14.38                 | 14.46                    | 14.55                  |                     |           |  |
| 15              | 64QAM      | 36      | 20        | 14.55                 | 14.31                    | 14.66                  | 16                  | 0         |  |
| 15              | 64QAM      | 36      | 39        | 14.80                 | 14.81                    | 14.84                  |                     |           |  |
| 15              | 64QAM      | 75      | 0         | 14.22                 | 14.58                    | 14.39                  |                     |           |  |
| Channel         |            |         |           | 37800                 | 38000                    | 38200                  | Tune-up limit       | MPRR      |  |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   | (dbm)               | (db)      |  |
| 10              | QPSK       | 1       | 0         | 14.77                 | 14.70                    | 14.78                  | 16                  | 0         |  |
| 10              | QPSK       | 1       | 25        | 15.04                 | 15.16                    | 15.06                  |                     |           |  |
| 10              | QPSK       | 1       | 49        | 14.81                 | 14.61                    | 14.91                  |                     |           |  |
| 10              | QPSK       | 25      | 0         | 14.85                 | 14.91                    | 14.70                  | 16                  | 0         |  |
| 10              | QPSK       | 25      | 12        | 14.76                 | 14.82                    | 14.79                  |                     |           |  |
| 10              | QPSK       | 25      | 25        | 14.43                 | 14.52                    | 14.62                  |                     |           |  |
| 10              | QPSK       | 50      | 0         | 14.80                 | 14.55                    | 14.49                  | 16                  | 0         |  |
| 10              | 16QAM      | 1       | 0         | 14.82                 | 14.90                    | 14.90                  |                     |           |  |
| 10              | 16QAM      | 1       | 25        | 14.64                 | 14.67                    | 14.55                  |                     |           |  |
| 10              | 16QAM      | 1       | 49        | 14.65                 | 14.61                    | 14.60                  | 16                  | 0         |  |
| 10              | 16QAM      | 25      | 0         | 14.66                 | 14.86                    | 14.70                  |                     |           |  |
| 10              | 16QAM      | 25      | 12        | 14.57                 | 14.55                    | 14.55                  |                     |           |  |
| 10              | 16QAM      | 25      | 25        | 14.54                 | 14.44                    | 14.41                  | 16                  | 0         |  |
| 10              | 16QAM      | 50      | 0         | 14.86                 | 14.77                    | 14.90                  |                     |           |  |
| 10              | 64QAM      | 1       | 0         | 14.56                 | 14.62                    | 14.73                  |                     |           |  |
| 10              | 64QAM      | 1       | 25        | 14.43                 | 14.38                    | 14.54                  | 16                  | 0         |  |
| 10              | 64QAM      | 1       | 49        | 14.90                 | 14.85                    | 14.94                  |                     |           |  |
| 10              | 64QAM      | 25      | 0         | 14.40                 | 14.44                    | 14.57                  |                     |           |  |
| 10              | 64QAM      | 25      | 12        | 14.58                 | 14.31                    | 14.69                  | 16                  | 0         |  |
| 10              | 64QAM      | 25      | 25        | 14.81                 | 14.82                    | 14.85                  |                     |           |  |
| 10              | 64QAM      | 50      | 0         | 14.30                 | 14.58                    | 14.47                  |                     |           |  |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  | Tune-up limit       | MPRR      |  |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 | (dbm)               | (db)      |  |
| 5               | QPSK       | 1       | 0         | 14.71                 | 14.66                    | 14.65                  | 16                  | 0         |  |
| 5               | QPSK       | 1       | 12        | 15.12                 | 15.06                    | 15.02                  |                     |           |  |
| 5               | QPSK       | 1       | 24        | 14.64                 | 14.70                    | 14.77                  |                     |           |  |
| 5               | QPSK       | 12      | 0         | 14.71                 | 14.93                    | 14.86                  | 16                  | 0         |  |
| 5               | QPSK       | 12      | 7         | 14.66                 | 14.81                    | 14.84                  |                     |           |  |
| 5               | QPSK       | 12      | 13        | 14.61                 | 14.58                    | 14.61                  |                     |           |  |
| 5               | QPSK       | 25      | 0         | 14.60                 | 14.68                    | 14.49                  | 16                  | 0         |  |
| 5               | 16QAM      | 1       | 0         | 14.66                 | 15.05                    | 14.77                  |                     |           |  |
| 5               | 16QAM      | 1       | 12        | 14.71                 | 14.52                    | 14.61                  |                     |           |  |
| 5               | 16QAM      | 1       | 24        | 14.60                 | 14.52                    | 14.57                  | 16                  | 0         |  |
| 5               | 16QAM      | 12      | 0         | 14.78                 | 14.70                    | 14.62                  |                     |           |  |
| 5               | 16QAM      | 12      | 7         | 14.56                 | 14.40                    | 14.54                  |                     |           |  |
| 5               | 16QAM      | 12      | 13        | 14.63                 | 14.53                    | 14.50                  | 16                  | 0         |  |
| 5               | 16QAM      | 25      | 0         | 14.91                 | 14.70                    | 14.95                  |                     |           |  |
| 5               | 64QAM      | 1       | 0         | 14.48                 | 14.57                    | 14.65                  |                     |           |  |
| 5               | 64QAM      | 1       | 12        | 14.45                 | 14.37                    | 14.56                  | 16                  | 0         |  |
| 5               | 64QAM      | 1       | 24        | 14.91                 | 14.91                    | 14.95                  |                     |           |  |
| 5               | 64QAM      | 12      | 0         | 14.36                 | 14.38                    | 14.53                  |                     |           |  |
| 5               | 64QAM      | 12      | 7         | 14.52                 | 14.45                    | 14.63                  | 16                  | 0         |  |
| 5               | 64QAM      | 12      | 13        | 14.89                 | 14.91                    | 14.93                  |                     |           |  |
| 5               | 64QAM      | 25      | 0         | 14.26                 | 14.72                    | 14.43                  |                     |           |  |

# Reduced Power for Handheld on

| GSM850          |  | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|--|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|
| TX Channel      |  | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |
| Frequency (MHz) |  | 824.2                     | 836.4 | 848.8 |                     | 824.2                     | 836.4 | 848.8 |                     |
| GSM 1 Tx slot   |  | 32.41                     | 32.48 | 32.40 | 33.50               | 23.41                     | 23.48 | 23.40 | 24.50               |
| GPRS 1 Tx slot  |  | 32.40                     | 32.46 | 32.39 | 33.50               | 23.40                     | 23.46 | 23.39 | 24.50               |
| GPRS 2 Tx slots |  | 31.58                     | 31.60 | 31.59 | 32.50               | 25.58                     | 25.60 | 25.59 | 26.50               |
| GPRS 3 Tx slots |  | 29.79                     | 29.81 | 29.80 | 31.00               | 25.53                     | 25.55 | 25.54 | 26.74               |
| GPRS 4 Tx slots |  | 28.64                     | 28.67 | 28.66 | 30.00               | 25.64                     | 25.67 | 25.66 | 27.00               |
| EDGE 1 Tx slot  |  | 27.00                     | 26.91 | 27.00 | 28.00               | 18.00                     | 17.91 | 18.00 | 19.00               |
| EDGE 2 Tx slots |  | 25.92                     | 25.74 | 25.98 | 26.50               | 19.92                     | 19.74 | 19.88 | 20.50               |
| EDGE 3 Tx slots |  | 23.77                     | 23.60 | 23.80 | 24.50               | 19.51                     | 19.34 | 19.34 | 20.24               |
| EDGE 4 Tx slots |  | 22.53                     | 22.36 | 22.37 | 23.00               | 19.53                     | 19.36 | 19.37 | 20.00               |

| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) |
|-----------------|--|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|
| TX Channel      |  | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |
| Frequency (MHz) |  | 1850.2                    | 1880  | 1909.8 |                     | 1850.2                    | 1880  | 1909.8 |                     |
| GSM 1 Tx slot   |  | 28.06                     | 28.21 | 28.76  | 29.50               | 19.06                     | 19.21 | 19.76  | 20.50               |
| GPRS 1 Tx slot  |  | 28.01                     | 28.18 | 28.72  | 29.50               | 19.01                     | 19.18 | 19.72  | 20.50               |
| GPRS 2 Tx slots |  | 27.32                     | 27.44 | 27.90  | 29.00               | 21.32                     | 21.44 | 21.90  | 23.00               |
| GPRS 3 Tx slots |  | 25.62                     | 25.89 | 26.19  | 27.00               | 21.36                     | 21.43 | 21.93  | 22.74               |
| GPRS 4 Tx slots |  | 24.42                     | 24.63 | 25.06  | 26.00               | 21.42                     | 21.63 | 22.06  | 23.00               |
| EDGE 1 Tx slot  |  | 24.86                     | 24.59 | 24.92  | 25.50               | 15.86                     | 15.59 | 15.92  | 16.50               |
| EDGE 2 Tx slots |  | 23.96                     | 23.62 | 24.00  | 24.50               | 17.96                     | 17.62 | 18.00  | 18.50               |
| EDGE 3 Tx slots |  | 22.08                     | 21.67 | 21.99  | 23.00               | 17.82                     | 17.41 | 17.73  | 18.74               |
| EDGE 4 Tx slots |  | 21.02                     | 20.63 | 20.96  | 22.00               | 18.02                     | 17.63 | 17.96  | 19.00               |

| Band                               |  | WCDMA II |       |        | Tune-up Limit (dBm) | WCDMA IV |        |        | Tune-up Limit (dBm) | WCDMA V |       |       | Tune-up Limit (dBm) |
|------------------------------------|--|----------|-------|--------|---------------------|----------|--------|--------|---------------------|---------|-------|-------|---------------------|
| TX Channel                         |  | 9262     | 9400  | 9538   |                     | 1312     | 1413   | 1513   |                     | 4132    | 4182  | 4233  |                     |
| RX Channel                         |  | 9602     | 9800  | 9938   |                     | 1537     | 1638   | 1738   |                     | 4357    | 4407  | 4458  |                     |
| Frequency (MHz)                    |  | 1852.4   | 1880  | 1907.6 |                     | 1712.4   | 1732.6 | 1752.8 |                     | 826.4   | 836.4 | 846.6 |                     |
| 3GPP Rel 99 AMR 12.2Kbps           |  | 18.60    | 18.56 | 18.67  | 20.50               | 18.50    | 18.30  | 18.42  | 20.00               | 22.35   | 22.30 | 22.37 | 24.00               |
| 3GPP Rel 99 RMC 12.2Kbps           |  | 18.68    | 18.58 | 18.73  | 20.50               | 18.64    | 18.26  | 18.45  | 20.00               | 22.37   | 22.40 | 22.38 | 24.00               |
| 3GPP Rel 6 HSDPA Subtest-1         |  | 17.69    | 17.61 | 17.55  | 19.50               | 17.54    | 17.44  | 17.23  | 19.00               | 21.45   | 21.45 | 21.51 | 23.00               |
| 3GPP Rel 6 HSDPA Subtest-2         |  | 17.76    | 17.66 | 17.32  | 19.50               | 17.66    | 17.13  | 17.38  | 19.00               | 21.41   | 21.33 | 21.36 | 23.00               |
| 3GPP Rel 6 HSDPA Subtest-3         |  | 17.21    | 17.20 | 17.18  | 19.00               | 17.12    | 16.97  | 16.67  | 18.50               | 20.93   | 20.86 | 20.89 | 22.50               |
| 3GPP Rel 6 HSDPA Subtest-4         |  | 17.15    | 17.08 | 17.14  | 19.00               | 16.98    | 16.99  | 16.85  | 18.50               | 20.90   | 20.81 | 20.84 | 22.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-1      |  | 17.67    | 17.67 | 17.50  | 19.50               | 17.62    | 17.19  | 17.39  | 19.00               | 21.38   | 21.34 | 21.43 | 23.00               |
| 3GPP Rel 8 DC-HSDPA Subtest-2      |  | 17.71    | 17.48 | 17.66  | 19.50               | 17.50    | 17.39  | 17.16  | 19.00               | 21.30   | 21.19 | 21.26 | 23.00               |
| 3GPP Rel 8 DC-HSDPA Subtest-3      |  | 16.98    | 16.93 | 17.12  | 19.00               | 16.93    | 16.69  | 16.87  | 18.50               | 20.86   | 20.72 | 20.82 | 22.50               |
| 3GPP Rel 8 DC-HSDPA Subtest-4      |  | 17.10    | 16.87 | 17.15  | 19.00               | 16.92    | 16.82  | 16.70  | 18.50               | 20.81   | 20.72 | 20.69 | 22.50               |
| 3GPP Rel 6 HSUPA Subtest-1         |  | 15.65    | 15.70 | 15.72  | 17.50               | 15.37    | 15.34  | 15.16  | 17.00               | 19.48   | 19.46 | 19.50 | 21.00               |
| 3GPP Rel 6 HSUPA Subtest-2         |  | 15.83    | 15.65 | 15.86  | 17.50               | 15.50    | 15.53  | 15.27  | 17.00               | 19.49   | 19.46 | 19.42 | 21.00               |
| 3GPP Rel 6 HSUPA Subtest-3         |  | 16.44    | 16.63 | 16.63  | 18.00               | 16.72    | 16.44  | 16.50  | 17.50               | 20.50   | 20.46 | 20.48 | 21.50               |
| 3GPP Rel 6 HSUPA Subtest-4         |  | 15.36    | 15.47 | 15.39  | 17.00               | 15.21    | 14.94  | 15.00  | 16.50               | 19.17   | 19.20 | 19.22 | 20.50               |
| 3GPP Rel 6 HSUPA Subtest-5         |  | 16.45    | 16.30 | 16.45  | 18.00               | 16.58    | 16.42  | 16.38  | 17.50               | 20.50   | 20.40 | 20.30 | 21.50               |
| 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 |  | 16.13    | 16.20 | 16.17  | 17.50               | 16.02    | 15.95  | 15.95  | 17.00               | 20.01   | 20.05 | 20.00 | 21.00               |

| Band 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) |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 18.11               | 18.25                  | 18.28                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 18.30               | 18.35                  | 18.29                |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 18.11               | 18.30                  | 18.08                |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 18.15               | 18.30                  | 18.13                |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 18.17               | 18.22                  | 18.20                |                     |          |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 18.27               | 18.05                  | 18.03                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 18.13               | 18.15                  | 18.10                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 18.23               | 18.16                  | 18.18                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 18.11               | 18.16                  | 18.18                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 18.21               | 18.01                  | 18.06                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 18.25               | 18.16                  | 18.08                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 18.13               | 18.10                  | 18.11                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 18.07               | 18.15                  | 18.02                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 18.15               | 18.06                  | 18.04                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 18.06               | 18.07                  | 18.10                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 18.15               | 18.10                  | 18.01                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 18.17               | 18.20                  | 18.13                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 18.24               | 18.08                  | 18.17                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 18.11               | 18.15                  | 18.16                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 18.12               | 18.04                  | 18.21                |                     |          |  |  |  |  |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 18.24               | 18.06                  | 18.02                | 20                  | 0        |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 18.24               | 18.30                  | 18.25                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 18.22               | 18.34                  | 18.27                |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 18.24               | 18.32                  | 18.21                |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 18.07               | 18.25                  | 18.08                |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 18.21               | 18.20                  | 18.08                |                     |          |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 18.27               | 18.20                  | 18.10                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 18.10               | 18.21                  | 18.17                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 18.28               | 18.12                  | 18.10                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 18.23               | 18.06                  | 18.19                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 18.15               | 18.18                  | 18.20                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 18.23               | 18.24                  | 18.06                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 18.19               | 18.23                  | 18.15                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 18.24               | 18.11                  | 18.19                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 18.07               | 18.13                  | 18.12                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 18.20               | 18.11                  | 18.04                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 18.27               | 18.19                  | 18.13                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 18.29               | 18.25                  | 18.25                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 18.39               | 18.18                  | 18.12                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 18.08               | 18.08                  | 18.04                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 18.10               | 18.13                  | 18.19                |                     |          |  |  |  |  |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 18.33               | 18.09                  | 18.15                | 20                  | 0        |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 18.19               | 18.23                  | 18.12                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 18.15               | 18.25                  | 18.37                |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 18.20               | 18.24                  | 18.23                |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 18.21               | 18.23                  | 18.08                |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 18.15               | 18.09                  | 18.20                |                     |          |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 18.26               | 18.26                  | 18.11                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 18.20               | 18.28                  | 18.24                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 18.22               | 18.13                  | 18.14                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 18.20               | 18.05                  | 18.06                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 18.21               | 18.24                  | 18.10                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 18.26               | 18.25                  | 18.09                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 18.30               | 18.27                  | 18.07                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 18.33               | 18.09                  | 18.28                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 18.23               | 18.08                  | 18.28                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 18.10               | 18.03                  | 18.04                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 18.19               | 18.14                  | 18.05                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 18.30               | 18.26                  | 18.26                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 18.30               | 18.10                  | 18.03                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 18.15               | 18.03                  | 18.11                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 18.15               | 18.22                  | 18.24                |                     |          |  |  |  |  |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 18.27               | 18.13                  | 18.05                | 20                  | 0        |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 18.20               | 18.27                  | 18.27                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 18.18               | 18.24                  | 18.33                |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 18.29               | 18.18                  | 18.12                |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 18.23               | 18.32                  | 18.08                |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 18.22               | 18.17                  | 18.14                |                     |          |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 18.33               | 18.26                  | 18.27                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 18.23               | 18.29                  | 18.09                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 18.28               | 18.29                  | 18.17                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 18.34               | 18.21                  | 18.16                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 18.28               | 18.27                  | 18.25                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 18.31               | 18.36                  | 18.14                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 18.11               | 18.23                  | 18.07                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 18.21               | 18.13                  | 18.16                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 18.22               | 18.03                  | 18.27                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 16QAM      | 25      | 12        | 18.18               | 18.14                  | 18.04                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 18.13               | 18.21                  | 18.07                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 18.18               | 18.14                  | 18.04                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 18.16               | 18.23                  | 18.12                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 18.32               | 18.12                  | 18.05                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 18.18               | 18.13                  | 18.14                |                     |          |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 18.17               | 18.22                  | 18.26                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 18.17               | 18.14                  | 18.05                |                     |          |  |  |  |  |  |  |  |  |
| Channel         |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| Frequency (MHz) |            |         |           |                     |                        |                      |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 18.09               | 18.26                  | 18.30                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 18.20               | 18.32                  | 18.32                |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 18.28               | 18.17                  | 18.23                |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 18.13               | 18.29                  | 18.01                |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 18.17               | 18.07                  | 18.23                |                     |          |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 18.35               | 18.12                  | 18.27                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 18.15               | 18.29                  | 18.06                |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 18.40               | 18.23                  | 18.07                |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 18.26               | 18.21                  | 18.06                |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 18.32               | 18.15                  | 18.20                |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 18.27               | 18.35                  | 18.10                | 20                  | 0        |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 18.21               | 18.14                  | 18.17                |                     |          |  |  |  |  |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 18.25               | 18.10                  | 18.20                |                     |          |  |  |  |  |  |  |  |  |

| Band 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         |            |         |           | 20850                 | 21100                    | 21350                  |                     |          |  |  |  |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |                     |          |  |  |  |
| 20              | QPSK       | 1       | 0         | 16.47                 | 16.50                    | 16.45                  | 17.5                | 0        |  |  |  |
| 20              | QPSK       | 1       | 49        | 16.43                 | 16.53                    | 16.59                  |                     |          |  |  |  |
| 20              | QPSK       | 1       | 99        | 16.48                 | 16.45                    | 16.55                  |                     |          |  |  |  |
| 20              | QPSK       | 50      | 0         | 16.59                 | 16.50                    | 16.70                  |                     |          |  |  |  |
| 20              | QPSK       | 50      | 24        | 16.22                 | 16.38                    | 16.36                  | 17.5                | 0        |  |  |  |
| 20              | QPSK       | 50      | 50        | 16.28                 | 16.23                    | 16.41                  |                     |          |  |  |  |
| 20              | QPSK       | 100     | 0         | 16.26                 | 16.41                    | 16.68                  |                     |          |  |  |  |
| 20              | 16QAM      | 1       | 0         | 16.48                 | 16.33                    | 16.68                  |                     |          |  |  |  |
| 20              | 16QAM      | 1       | 49        | 16.38                 | 16.40                    | 16.46                  | 17.5                | 0        |  |  |  |
| 20              | 16QAM      | 1       | 99        | 16.36                 | 16.33                    | 16.35                  |                     |          |  |  |  |
| 20              | 16QAM      | 50      | 0         | 16.37                 | 16.36                    | 16.37                  |                     |          |  |  |  |
| 20              | 16QAM      | 50      | 24        | 16.44                 | 16.44                    | 16.49                  |                     |          |  |  |  |
| 20              | 16QAM      | 50      | 50        | 16.36                 | 16.40                    | 16.41                  | 17.5                | 0        |  |  |  |
| 20              | 16QAM      | 100     | 0         | 16.53                 | 16.33                    | 16.79                  |                     |          |  |  |  |
| 20              | 64QAM      | 1       | 0         | 16.16                 | 16.28                    | 16.29                  |                     |          |  |  |  |
| 20              | 64QAM      | 1       | 49        | 16.22                 | 16.48                    | 16.50                  | 17.5                | 0        |  |  |  |
| 20              | 64QAM      | 1       | 99        | 16.50                 | 16.47                    | 16.66                  |                     |          |  |  |  |
| 20              | 64QAM      | 50      | 0         | 16.13                 | 16.42                    | 16.33                  |                     |          |  |  |  |
| 20              | 64QAM      | 50      | 24        | 16.26                 | 16.53                    | 16.38                  |                     |          |  |  |  |
| 20              | 64QAM      | 50      | 50        | 16.23                 | 16.15                    | 16.50                  | 17.5                | 0        |  |  |  |
| 20              | 64QAM      | 100     | 0         | 16.19                 | 16.36                    | 16.43                  |                     |          |  |  |  |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  | Tune-up limit (dBm) |          |  |  |  |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |                     |          |  |  |  |
| 15              | QPSK       | 1       | 0         | 16.49                 | 16.46                    | 16.27                  | 17.5                | 0        |  |  |  |
| 15              | QPSK       | 1       | 37        | 16.52                 | 16.49                    | 16.80                  |                     |          |  |  |  |
| 15              | QPSK       | 1       | 74        | 16.50                 | 16.43                    | 16.49                  |                     |          |  |  |  |
| 15              | QPSK       | 36      | 0         | 16.35                 | 16.38                    | 16.45                  |                     |          |  |  |  |
| 15              | QPSK       | 36      | 20        | 16.25                 | 16.35                    | 16.22                  | 17.5                | 0        |  |  |  |
| 15              | QPSK       | 36      | 39        | 16.27                 | 16.23                    | 16.50                  |                     |          |  |  |  |
| 15              | QPSK       | 75      | 0         | 16.26                 | 16.33                    | 16.48                  |                     |          |  |  |  |
| 15              | 16QAM      | 1       | 0         | 16.13                 | 16.35                    | 16.70                  |                     |          |  |  |  |
| 15              | 16QAM      | 1       | 37        | 16.17                 | 16.12                    | 16.45                  | 17.5                | 0        |  |  |  |
| 15              | 16QAM      | 1       | 74        | 16.41                 | 16.36                    | 16.46                  |                     |          |  |  |  |
| 15              | 16QAM      | 36      | 0         | 16.27                 | 16.34                    | 16.36                  |                     |          |  |  |  |
| 15              | 16QAM      | 36      | 20        | 16.57                 | 16.43                    | 16.62                  |                     |          |  |  |  |
| 15              | 16QAM      | 36      | 39        | 16.45                 | 16.46                    | 16.48                  | 17.5                | 0        |  |  |  |
| 15              | 16QAM      | 75      | 0         | 16.49                 | 16.33                    | 16.75                  |                     |          |  |  |  |
| 15              | 64QAM      | 1       | 0         | 16.30                 | 16.41                    | 16.43                  |                     |          |  |  |  |
| 15              | 64QAM      | 1       | 37        | 16.23                 | 16.47                    | 16.51                  |                     |          |  |  |  |
| 15              | 64QAM      | 1       | 74        | 16.61                 | 16.53                    | 16.77                  | 17.5                | 0        |  |  |  |
| 15              | 64QAM      | 36      | 0         | 16.11                 | 16.56                    | 16.31                  |                     |          |  |  |  |
| 15              | 64QAM      | 36      | 20        | 16.30                 | 16.54                    | 16.42                  |                     |          |  |  |  |
| 15              | 64QAM      | 36      | 39        | 16.26                 | 16.22                    | 16.53                  |                     |          |  |  |  |
| 15              | 64QAM      | 75      | 0         | 16.33                 | 16.39                    | 16.57                  | 17.5                | 0        |  |  |  |
| Channel         |            |         |           | 20800                 | 21100                    | 21400                  | Tune-up limit (dBm) |          |  |  |  |
| Frequency (MHz) |            |         |           | 2506                  | 2536                     | 2566                   |                     |          |  |  |  |
| 10              | QPSK       | 1       | 0         | 16.46                 | 16.45                    | 16.26                  | 17.5                | 0        |  |  |  |
| 10              | QPSK       | 1       | 25        | 16.48                 | 16.67                    | 16.81                  |                     |          |  |  |  |
| 10              | QPSK       | 1       | 49        | 16.43                 | 16.50                    | 16.56                  |                     |          |  |  |  |
| 10              | QPSK       | 25      | 0         | 16.24                 | 16.42                    | 16.56                  |                     |          |  |  |  |
| 10              | QPSK       | 25      | 12        | 16.34                 | 16.39                    | 16.36                  | 17.5                | 0        |  |  |  |
| 10              | QPSK       | 25      | 25        | 16.17                 | 16.34                    | 16.50                  |                     |          |  |  |  |
| 10              | QPSK       | 50      | 0         | 16.25                 | 16.37                    | 16.56                  |                     |          |  |  |  |
| 10              | 16QAM      | 1       | 0         | 16.06                 | 16.40                    | 16.57                  |                     |          |  |  |  |
| 10              | 16QAM      | 1       | 25        | 16.17                 | 16.20                    | 16.37                  | 17.5                | 0        |  |  |  |
| 10              | 16QAM      | 1       | 49        | 16.46                 | 16.36                    | 16.50                  |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 0         | 16.37                 | 16.36                    | 16.37                  |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 12        | 16.41                 | 16.41                    | 16.46                  |                     |          |  |  |  |
| 10              | 16QAM      | 25      | 25        | 16.53                 | 16.46                    | 16.56                  | 17.5                | 0        |  |  |  |
| 10              | 16QAM      | 50      | 0         | 16.41                 | 16.32                    | 16.67                  |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 0         | 16.23                 | 16.31                    | 16.36                  |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 25        | 16.35                 | 16.34                    | 16.63                  |                     |          |  |  |  |
| 10              | 64QAM      | 1       | 49        | 16.52                 | 16.46                    | 16.68                  | 17.5                | 0        |  |  |  |
| 10              | 64QAM      | 25      | 0         | 16.16                 | 16.56                    | 16.36                  |                     |          |  |  |  |
| 10              | 64QAM      | 25      | 12        | 16.28                 | 16.52                    | 16.40                  |                     |          |  |  |  |
| 10              | 64QAM      | 25      | 25        | 16.26                 | 16.09                    | 16.53                  |                     |          |  |  |  |
| 10              | 64QAM      | 50      | 0         | 16.27                 | 16.48                    | 16.51                  | 17.5                | 0        |  |  |  |
| Channel         |            |         |           | 20775                 | 21100                    | 21425                  | Tune-up limit (dBm) |          |  |  |  |
| Frequency (MHz) |            |         |           | 2502.5                | 2535                     | 2567.5                 |                     |          |  |  |  |
| 5               | QPSK       | 1       | 0         | 16.44                 | 16.35                    | 16.41                  | 17.5                | 0        |  |  |  |
| 5               | QPSK       | 1       | 12        | 16.47                 | 16.57                    | 16.77                  |                     |          |  |  |  |
| 5               | QPSK       | 1       | 24        | 16.37                 | 16.57                    | 16.51                  |                     |          |  |  |  |
| 5               | QPSK       | 12      | 0         | 16.37                 | 16.35                    | 16.52                  |                     |          |  |  |  |
| 5               | QPSK       | 12      | 7         | 16.29                 | 16.51                    | 16.27                  | 17.5                | 0        |  |  |  |
| 5               | QPSK       | 12      | 13        | 16.26                 | 16.29                    | 16.57                  |                     |          |  |  |  |
| 5               | QPSK       | 25      | 0         | 16.29                 | 16.36                    | 16.50                  |                     |          |  |  |  |
| 5               | 16QAM      | 1       | 0         | 16.12                 | 16.31                    | 16.67                  |                     |          |  |  |  |
| 5               | 16QAM      | 1       | 12        | 16.20                 | 16.09                    | 16.42                  | 17.5                | 0        |  |  |  |
| 5               | 16QAM      | 1       | 24        | 16.34                 | 16.32                    | 16.38                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 0         | 16.37                 | 16.46                    | 16.37                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 7         | 16.40                 | 16.56                    | 16.45                  |                     |          |  |  |  |
| 5               | 16QAM      | 12      | 13        | 16.38                 | 16.36                    | 16.41                  | 17.5                | 0        |  |  |  |
| 5               | 16QAM      | 25      | 0         | 16.58                 | 16.22                    | 16.64                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 0         | 16.25                 | 16.34                    | 16.38                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 12        | 16.26                 | 16.48                    | 16.54                  |                     |          |  |  |  |
| 5               | 64QAM      | 1       | 24        | 16.63                 | 16.44                    | 16.79                  | 17.5                | 0        |  |  |  |
| 5               | 64QAM      | 12      | 0         | 16.16                 | 16.40                    | 16.36                  |                     |          |  |  |  |
| 5               | 64QAM      | 12      | 7         | 16.37                 | 16.55                    | 16.49                  |                     |          |  |  |  |
| 5               | 64QAM      | 12      | 13        | 16.20                 | 16.15                    | 16.47                  |                     |          |  |  |  |
| 5               | 64QAM      | 25      | 0         | 16.24                 | 16.29                    | 16.46                  |                     |          |  |  |  |

| Band 13         |            |         |           |                       |                          |                        |                     |          |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|----------|--|
| 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         |            |         |           | 23230                 |                          |                        |                     |          |  |
| Frequency (MHz) |            |         |           |                       |                          |                        |                     |          |  |
| 10              | QPSK       | 1       | 0         |                       | 22.83                    |                        | 23                  | 1        |  |
| 10              | QPSK       | 1       | 25        |                       | 22.84                    |                        |                     |          |  |
| 10              | QPSK       | 1       | 49        |                       | 22.75                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 0         |                       | 21.80                    |                        |                     |          |  |
| 10              | QPSK       | 25      | 12        |                       | 21.75                    |                        | 23                  | 1        |  |
| 10              | QPSK       | 25      | 25        |                       | 21.71                    |                        |                     |          |  |
| 10              | QPSK       | 50      | 0         |                       | 21.76                    |                        |                     |          |  |
| 10              | 16QAM      | 1       | 0         |                       | 21.86                    |                        |                     |          |  |
| 10              | 16QAM      | 1       | 25        |                       | 22.07                    |                        | 23                  | 1        |  |
| 10              | 16QAM      | 1       | 49        |                       | 22.04                    |                        |                     |          |  |
| 10              | 16QAM      | 25      | 0         |                       | 20.76                    |                        |                     |          |  |
| 10              | 16QAM      | 25      | 12        |                       | 20.85                    |                        | 22                  | 2        |  |
| 10              | 16QAM      | 25      | 25        |                       | 20.86                    |                        |                     |          |  |
| 10              | 16QAM      | 50      | 0         |                       | 20.81                    |                        |                     |          |  |
| 10              | 64QAM      | 1       | 0         |                       | 20.85                    |                        |                     |          |  |
| 10              | 64QAM      | 1       | 25        |                       | 21.05                    |                        | 22                  | 2        |  |
| 10              | 64QAM      | 1       | 49        |                       | 20.98                    |                        |                     |          |  |
| 10              | 64QAM      | 25      | 0         |                       | 19.75                    |                        |                     |          |  |
| 10              | 64QAM      | 25      | 12        |                       | 19.87                    |                        | 21                  | 3        |  |
| 10              | 64QAM      | 25      | 25        |                       | 19.87                    |                        |                     |          |  |
| 10              | 64QAM      | 50      | 0         |                       | 19.81                    |                        |                     |          |  |
| Channel         |            |         |           | 23205                 | 23230                    | 23255                  | Tune-up limit (dBm) | MPR (dB) |  |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |                     |          |  |
| 5               | QPSK       | 1       | 0         | 22.53                 | 22.53                    | 22.59                  | 24                  | 0        |  |
| 5               | QPSK       | 1       | 12        | 22.75                 | 22.76                    | 22.81                  |                     |          |  |
| 5               | QPSK       | 1       | 24        | 22.66                 | 22.66                    | 22.65                  |                     |          |  |
| 5               | QPSK       | 12      | 0         | 21.77                 | 21.75                    | 21.75                  |                     |          |  |
| 5               | QPSK       | 12      | 7         | 21.68                 | 21.65                    | 21.67                  | 23                  | 1        |  |
| 5               | QPSK       | 12      | 13        | 21.62                 | 21.61                    | 21.61                  |                     |          |  |
| 5               | QPSK       | 25      | 0         | 21.66                 | 21.70                    | 21.72                  |                     |          |  |
| 5               | 16QAM      | 1       | 0         | 21.81                 | 21.76                    | 21.83                  |                     |          |  |
| 5               | 16QAM      | 1       | 12        | 22.04                 | 21.98                    | 22.02                  | 23                  | 1        |  |
| 5               | 16QAM      | 1       | 24        | 21.96                 | 21.99                    | 21.99                  |                     |          |  |
| 5               | 16QAM      | 12      | 0         | 20.66                 | 20.68                    | 20.69                  |                     |          |  |
| 5               | 16QAM      | 12      | 7         | 20.76                 | 20.75                    | 20.76                  | 22                  | 2        |  |
| 5               | 16QAM      | 12      | 13        | 20.81                 | 20.83                    | 20.78                  |                     |          |  |
| 5               | 16QAM      | 25      | 0         | 20.71                 | 20.74                    | 20.74                  |                     |          |  |
| 5               | 64QAM      | 1       | 0         | 20.77                 | 20.79                    | 20.79                  |                     |          |  |
| 5               | 64QAM      | 1       | 12        | 21.02                 | 20.98                    | 21.02                  | 22                  | 2        |  |
| 5               | 64QAM      | 1       | 24        | 20.92                 | 20.91                    | 20.90                  |                     |          |  |
| 5               | 64QAM      | 12      | 0         | 19.72                 | 19.70                    | 19.66                  |                     |          |  |
| 5               | 64QAM      | 12      | 7         | 19.77                 | 19.84                    | 19.78                  | 21                  | 3        |  |
| 5               | 64QAM      | 12      | 13        | 19.82                 | 19.77                    | 19.79                  |                     |          |  |
| 5               | 64QAM      | 25      | 0         | 19.74                 | 19.71                    | 19.76                  |                     |          |  |



| Band 26         |            |         |           |                          |                          |                           |                           |             |  |
|-----------------|------------|---------|-----------|--------------------------|--------------------------|---------------------------|---------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Mid<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Channel         |            |         |           | 26765                    | 26865                    | 26965                     |                           |             |  |
| Frequency (MHz) |            |         |           | 821.5                    | 831.5                    | 841.5                     |                           |             |  |
| 15              | QPSK       | 1       | 0         | 22.40                    | 22.27                    | 22.26                     | 24                        | 0           |  |
| 15              | QPSK       | 1       | 37        | 22.53                    | 22.40                    | 22.47                     |                           |             |  |
| 15              | QPSK       | 1       | 74        | 22.27                    | 22.23                    | 22.31                     |                           |             |  |
| 15              | QPSK       | 36      | 0         | 21.48                    | 21.33                    | 21.39                     | 23                        | 1           |  |
| 15              | QPSK       | 36      | 20        | 21.46                    | 21.33                    | 21.41                     |                           |             |  |
| 15              | QPSK       | 36      | 39        | 21.43                    | 21.26                    | 21.36                     |                           |             |  |
| 15              | QPSK       | 75      | 0         | 21.46                    | 21.27                    | 21.34                     | 23                        | 1           |  |
| 15              | 16QAM      | 1       | 0         | 21.66                    | 21.50                    | 21.54                     |                           |             |  |
| 15              | 16QAM      | 1       | 37        | 21.93                    | 21.65                    | 21.76                     |                           |             |  |
| 15              | 16QAM      | 1       | 74        | 21.58                    | 21.60                    | 21.64                     | 22                        | 2           |  |
| 15              | 16QAM      | 36      | 0         | 20.54                    | 20.40                    | 20.46                     |                           |             |  |
| 15              | 16QAM      | 36      | 20        | 20.50                    | 20.39                    | 20.45                     |                           |             |  |
| 15              | 16QAM      | 36      | 39        | 20.45                    | 20.30                    | 20.34                     | 22                        | 2           |  |
| 15              | 16QAM      | 75      | 0         | 20.54                    | 20.32                    | 20.42                     |                           |             |  |
| 15              | 64QAM      | 1       | 0         | 20.70                    | 20.43                    | 20.54                     |                           |             |  |
| 15              | 64QAM      | 1       | 37        | 20.83                    | 20.69                    | 20.82                     | 22                        | 2           |  |
| 15              | 64QAM      | 1       | 74        | 20.44                    | 20.50                    | 20.65                     |                           |             |  |
| 15              | 64QAM      | 36      | 0         | 19.53                    | 19.39                    | 19.48                     |                           |             |  |
| 15              | 64QAM      | 36      | 20        | 19.50                    | 19.42                    | 19.48                     | 21                        | 3           |  |
| 15              | 64QAM      | 36      | 39        | 19.46                    | 19.33                    | 19.34                     |                           |             |  |
| 15              | 64QAM      | 75      | 0         | 19.51                    | 19.33                    | 19.40                     |                           |             |  |
| Channel         |            |         |           | 26740                    | 26865                    | 26990                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Frequency (MHz) |            |         |           | 819                      | 831.5                    | 844                       |                           |             |  |
| 10              | QPSK       | 1       | 0         | 22.37                    | 22.24                    | 22.16                     | 24                        | 0           |  |
| 10              | QPSK       | 1       | 25        | 22.50                    | 22.33                    | 22.40                     |                           |             |  |
| 10              | QPSK       | 1       | 49        | 22.22                    | 22.13                    | 22.22                     |                           |             |  |
| 10              | QPSK       | 25      | 0         | 21.40                    | 21.30                    | 21.29                     | 23                        | 1           |  |
| 10              | QPSK       | 25      | 12        | 21.43                    | 21.27                    | 21.33                     |                           |             |  |
| 10              | QPSK       | 25      | 25        | 21.33                    | 21.23                    | 21.23                     |                           |             |  |
| 10              | QPSK       | 50      | 0         | 21.39                    | 21.23                    | 21.27                     | 23                        | 1           |  |
| 10              | 16QAM      | 1       | 0         | 21.56                    | 21.42                    | 21.44                     |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 21.67                    | 21.57                    | 21.71                     |                           |             |  |
| 10              | 16QAM      | 1       | 49        | 21.54                    | 21.54                    | 21.57                     | 22                        | 2           |  |
| 10              | 16QAM      | 25      | 0         | 20.47                    | 20.31                    | 20.43                     |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 20.41                    | 20.31                    | 20.38                     |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 20.37                    | 20.23                    | 20.26                     | 22                        | 2           |  |
| 10              | 16QAM      | 50      | 0         | 20.46                    | 20.24                    | 20.38                     |                           |             |  |
| 10              | 64QAM      | 1       | 0         | 20.63                    | 20.37                    | 20.45                     |                           |             |  |
| 10              | 64QAM      | 1       | 25        | 20.75                    | 20.60                    | 20.77                     | 22                        | 2           |  |
| 10              | 64QAM      | 1       | 49        | 20.37                    | 20.40                    | 20.57                     |                           |             |  |
| 10              | 64QAM      | 25      | 0         | 19.47                    | 19.30                    | 19.44                     |                           |             |  |
| 10              | 64QAM      | 25      | 12        | 19.40                    | 19.32                    | 19.40                     | 21                        | 3           |  |
| 10              | 64QAM      | 25      | 25        | 19.42                    | 19.30                    | 19.28                     |                           |             |  |
| 10              | 64QAM      | 50      | 0         | 19.43                    | 19.24                    | 19.35                     |                           |             |  |
| Channel         |            |         |           | 26715                    | 26865                    | 27015                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Frequency (MHz) |            |         |           | 816.5                    | 831.5                    | 846.5                     |                           |             |  |
| 5               | QPSK       | 1       | 0         | 22.30                    | 22.24                    | 22.21                     | 24                        | 0           |  |
| 5               | QPSK       | 1       | 12        | 22.47                    | 22.34                    | 22.44                     |                           |             |  |
| 5               | QPSK       | 1       | 24        | 22.24                    | 22.16                    | 22.25                     |                           |             |  |
| 5               | QPSK       | 12      | 0         | 21.45                    | 21.27                    | 21.36                     | 23                        | 1           |  |
| 5               | QPSK       | 12      | 7         | 21.40                    | 21.26                    | 21.35                     |                           |             |  |
| 5               | QPSK       | 12      | 13        | 21.33                    | 21.19                    | 21.23                     |                           |             |  |
| 5               | QPSK       | 25      | 0         | 21.38                    | 21.17                    | 21.25                     | 23                        | 1           |  |
| 5               | 16QAM      | 1       | 0         | 21.58                    | 21.40                    | 21.48                     |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 21.84                    | 21.55                    | 21.72                     |                           |             |  |
| 5               | 16QAM      | 1       | 24        | 21.55                    | 21.57                    | 21.60                     | 22                        | 2           |  |
| 5               | 16QAM      | 12      | 0         | 20.50                    | 20.30                    | 20.42                     |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 20.46                    | 20.30                    | 20.37                     |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 20.41                    | 20.27                    | 20.26                     | 22                        | 2           |  |
| 5               | 16QAM      | 25      | 0         | 20.51                    | 20.26                    | 20.37                     |                           |             |  |
| 5               | 64QAM      | 1       | 0         | 20.66                    | 20.39                    | 20.51                     |                           |             |  |
| 5               | 64QAM      | 1       | 12        | 20.74                    | 20.64                    | 20.73                     | 22                        | 2           |  |
| 5               | 64QAM      | 1       | 24        | 20.35                    | 20.43                    | 20.56                     |                           |             |  |
| 5               | 64QAM      | 12      | 0         | 19.46                    | 19.32                    | 19.41                     |                           |             |  |
| 5               | 64QAM      | 12      | 7         | 19.44                    | 19.35                    | 19.45                     | 21                        | 3           |  |
| 5               | 64QAM      | 12      | 13        | 19.42                    | 19.29                    | 19.28                     |                           |             |  |
| 5               | 64QAM      | 25      | 0         | 19.42                    | 19.23                    | 19.34                     |                           |             |  |
| Channel         |            |         |           | 26705                    | 26865                    | 27025                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Frequency (MHz) |            |         |           | 815.5                    | 831.5                    | 847.5                     |                           |             |  |
| 3               | QPSK       | 1       | 0         | 22.34                    | 22.24                    | 22.16                     | 24                        | 0           |  |
| 3               | QPSK       | 1       | 5         | 22.49                    | 22.30                    | 22.40                     |                           |             |  |
| 3               | QPSK       | 1       | 14        | 22.20                    | 22.14                    | 22.22                     |                           |             |  |
| 3               | QPSK       | 8       | 0         | 21.42                    | 21.27                    | 21.32                     | 23                        | 1           |  |
| 3               | QPSK       | 8       | 4         | 21.43                    | 21.23                    | 21.35                     |                           |             |  |
| 3               | QPSK       | 8       | 7         | 21.37                    | 21.20                    | 21.21                     |                           |             |  |
| 3               | QPSK       | 15      | 0         | 21.43                    | 21.17                    | 21.31                     | 23                        | 1           |  |
| 3               | 16QAM      | 1       | 0         | 21.61                    | 21.47                    | 21.48                     |                           |             |  |
| 3               | 16QAM      | 1       | 8         | 21.83                    | 21.55                    | 21.67                     |                           |             |  |
| 3               | 16QAM      | 1       | 14        | 21.53                    | 21.54                    | 21.61                     | 22                        | 2           |  |
| 3               | 16QAM      | 8       | 0         | 20.47                    | 20.32                    | 20.43                     |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 20.45                    | 20.29                    | 20.39                     |                           |             |  |
| 3               | 16QAM      | 8       | 7         | 20.42                    | 20.25                    | 20.26                     | 22                        | 2           |  |
| 3               | 16QAM      | 15      | 0         | 20.47                    | 20.24                    | 20.39                     |                           |             |  |
| 3               | 64QAM      | 1       | 0         | 20.62                    | 20.34                    | 20.49                     |                           |             |  |
| 3               | 64QAM      | 1       | 8         | 20.76                    | 20.61                    | 20.79                     | 22                        | 2           |  |
| 3               | 64QAM      | 1       | 14        | 20.36                    | 20.41                    | 20.56                     |                           |             |  |
| 3               | 64QAM      | 8       | 0         | 19.45                    | 19.29                    | 19.43                     |                           |             |  |
| 3               | 64QAM      | 8       | 4         | 19.47                    | 19.32                    | 19.38                     | 21                        | 3           |  |
| 3               | 64QAM      | 8       | 7         | 19.38                    | 19.29                    | 19.25                     |                           |             |  |
| 3               | 64QAM      | 15      | 0         | 19.47                    | 19.25                    | 19.35                     |                           |             |  |
| Channel         |            |         |           | 26997                    | 26865                    | 27033                     | Tune-up<br>limit<br>(dbm) | MPR<br>(db) |  |
| Frequency (MHz) |            |         |           | 814.7                    | 831.5                    | 848.3                     |                           |             |  |
| 1.4             | QPSK       | 1       | 0         | 22.31                    | 22.20                    | 22.22                     | 24                        | 0           |  |
| 1.4             | QPSK       | 1       | 3         | 22.45                    | 22.32                    | 22.37                     |                           |             |  |
| 1.4             | QPSK       | 1       | 5         | 22.18                    | 22.15                    | 22.27                     |                           |             |  |
| 1.4             | QPSK       | 3       | 0         | 22.27                    | 22.15                    | 22.13                     | 23                        | 1           |  |
| 1.4             | QPSK       | 3       | 1         | 22.36                    | 22.27                    | 22.33                     |                           |             |  |
| 1.4             | QPSK       | 3       | 3         | 22.09                    | 22.12                    | 22.19                     |                           |             |  |
| 1.4             | QPSK       | 6       | 0         | 21.40                    | 21.20                    | 21.28                     | 23                        | 1           |  |
| 1.4             | 16QAM      | 1       | 0         | 21.61                    | 21.47                    | 21.48                     |                           |             |  |
| 1.4             | 16QAM      | 1       | 3         | 21.90                    | 21.55                    | 21.70                     |                           |             |  |
| 1.4             | 16QAM      | 1       | 5         | 21.54                    | 21.50                    | 21.59                     | 23                        | 1           |  |
| 1.4             | 16QAM      | 3       | 0         | 21.64                    | 21.46                    | 21.47                     |                           |             |  |
| 1.4             | 16QAM      | 3       | 1         | 21.89                    | 21.54                    | 21.74                     |                           |             |  |
| 1.4             | 16QAM      | 3       | 3         | 21.58                    | 21.52                    | 21.59                     | 22                        | 2           |  |
| 1.4             | 16QAM      | 6       | 0         | 20.51                    | 20.25                    | 20.37                     |                           |             |  |
| 1.4             | 64QAM      | 1       | 0         | 20.65                    | 20.39                    | 20.44                     |                           |             |  |
| 1.4             | 64QAM      | 1       | 3         | 20.80                    | 20.61                    | 20.75                     | 22                        | 2           |  |
| 1.4             | 64QAM      | 1       | 5         | 20.39                    | 20.43                    | 20.60                     |                           |             |  |
| 1.4             | 64QAM      | 3       | 0         | 20.62                    | 20.32                    | 20.39                     |                           |             |  |
| 1.4             | 64QAM      | 3       | 1         | 20.81                    | 20.63                    | 20.80                     | 22                        | 2           |  |
| 1.4             | 64QAM      | 3       | 3         | 20.40                    | 20.47                    | 20.59                     |                           |             |  |
| 1.4             | 64QAM      | 6       | 0         | 19.44                    | 19.26                    | 19.33                     |                           |             |  |

| Band 66         |            |         |           |                          |                             |                           |                           |             |  |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|---------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 132072                   | 132322                      | 132572                    |                           |             |  |
| Frequency (MHz) |            |         |           | 1720                     | 1745                        | 1770                      |                           |             |  |
| 20              | QPSK       | 1       | 0         | 18.64                    | 18.59                       | 18.70                     | 20                        | 0           |  |
| 20              | QPSK       | 1       | 49        | 18.79                    | 18.90                       | 18.81                     |                           |             |  |
| 20              | QPSK       | 1       | 99        | 18.65                    | 18.59                       | 18.66                     |                           |             |  |
| 20              | QPSK       | 50      | 0         | 18.70                    | 18.77                       | 18.65                     | 20                        | 0           |  |
| 20              | QPSK       | 50      | 24        | 18.37                    | 18.44                       | 18.46                     |                           |             |  |
| 20              | QPSK       | 50      | 50        | 18.47                    | 18.50                       | 18.45                     |                           |             |  |
| 20              | QPSK       | 100     | 0         | 18.48                    | 18.61                       | 18.16                     | 20                        | 0           |  |
| 20              | 16QAM      | 1       | 0         | 18.53                    | 18.59                       | 18.45                     |                           |             |  |
| 20              | 16QAM      | 1       | 49        | 18.25                    | 18.22                       | 18.40                     |                           |             |  |
| 20              | 16QAM      | 1       | 99        | 18.33                    | 18.37                       | 18.25                     | 20                        | 0           |  |
| 20              | 16QAM      | 50      | 0         | 18.59                    | 18.55                       | 18.57                     |                           |             |  |
| 20              | 16QAM      | 50      | 24        | 18.29                    | 18.10                       | 18.32                     |                           |             |  |
| 20              | 16QAM      | 50      | 50        | 18.46                    | 18.60                       | 18.27                     | 20                        | 0           |  |
| 20              | 16QAM      | 100     | 0         | 18.70                    | 18.61                       | 18.68                     |                           |             |  |
| 20              | 16QAM      | 1       | 0         | 18.41                    | 18.40                       | 18.44                     |                           |             |  |
| 20              | 16QAM      | 1       | 49        | 18.66                    | 18.49                       | 18.60                     | 20                        | 0           |  |
| 20              | 16QAM      | 1       | 99        | 18.58                    | 18.39                       | 18.56                     |                           |             |  |
| 20              | 16QAM      | 50      | 0         | 18.43                    | 18.32                       | 18.46                     |                           |             |  |
| 20              | 16QAM      | 50      | 24        | 18.46                    | 18.36                       | 18.35                     | 20                        | 0           |  |
| 20              | 16QAM      | 50      | 50        | 18.63                    | 18.45                       | 18.61                     |                           |             |  |
| 20              | 16QAM      | 100     | 0         | 18.36                    | 18.21                       | 18.39                     |                           |             |  |
| Channel         |            |         |           | 132047                   | 132322                      | 132597                    | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1717.5                   | 1745                        | 1772.5                    |                           |             |  |
| 15              | QPSK       | 1       | 0         | 18.57                    | 18.49                       | 18.65                     | 20                        | 0           |  |
| 15              | QPSK       | 1       | 37        | 18.69                    | 18.80                       | 18.73                     |                           |             |  |
| 15              | QPSK       | 1       | 74        | 18.36                    | 18.45                       | 18.35                     |                           |             |  |
| 15              | QPSK       | 36      | 0         | 18.64                    | 18.61                       | 18.55                     | 20                        | 0           |  |
| 15              | QPSK       | 36      | 20        | 18.47                    | 18.30                       | 18.42                     |                           |             |  |
| 15              | QPSK       | 75      | 0         | 18.35                    | 18.44                       | 18.15                     |                           |             |  |
| 15              | 16QAM      | 1       | 0         | 18.40                    | 18.63                       | 18.58                     | 20                        | 0           |  |
| 15              | 16QAM      | 1       | 37        | 18.32                    | 18.16                       | 18.33                     |                           |             |  |
| 15              | 16QAM      | 1       | 74        | 18.23                    | 18.27                       | 18.20                     |                           |             |  |
| 15              | 16QAM      | 36      | 0         | 18.62                    | 18.61                       | 18.60                     | 20                        | 0           |  |
| 15              | 16QAM      | 36      | 20        | 18.31                    | 18.18                       | 18.34                     |                           |             |  |
| 15              | 16QAM      | 36      | 29        | 18.57                    | 18.11                       | 18.51                     |                           |             |  |
| 15              | 16QAM      | 75      | 0         | 18.69                    | 18.69                       | 18.67                     | 20                        | 0           |  |
| 15              | 16QAM      | 1       | 0         | 18.46                    | 18.47                       | 18.45                     |                           |             |  |
| 15              | 16QAM      | 1       | 37        | 18.56                    | 18.53                       | 18.50                     |                           |             |  |
| 15              | 16QAM      | 1       | 74        | 18.54                    | 18.50                       | 18.52                     | 20                        | 0           |  |
| 15              | 16QAM      | 36      | 0         | 18.42                    | 18.37                       | 18.45                     |                           |             |  |
| 15              | 16QAM      | 36      | 20        | 18.43                    | 18.51                       | 18.37                     |                           |             |  |
| 15              | 16QAM      | 36      | 39        | 18.71                    | 18.42                       | 18.69                     | 20                        | 0           |  |
| 15              | 16QAM      | 75      | 0         | 18.40                    | 18.38                       | 18.43                     |                           |             |  |
| Channel         |            |         |           | 132062                   | 132322                      | 132602                    |                           |             |  |
| Frequency (MHz) |            |         |           | 1715                     | 1745                        | 1775                      |                           |             |  |
| 10              | QPSK       | 1       | 0         | 18.55                    | 18.62                       | 18.55                     | 20                        | 0           |  |
| 10              | QPSK       | 1       | 25        | 18.76                    | 18.78                       | 18.72                     |                           |             |  |
| 10              | QPSK       | 1       | 49        | 18.36                    | 18.55                       | 18.30                     |                           |             |  |
| 10              | QPSK       | 25      | 0         | 18.64                    | 18.64                       | 18.53                     | 20                        | 0           |  |
| 10              | QPSK       | 25      | 12        | 18.43                    | 18.36                       | 18.50                     |                           |             |  |
| 10              | QPSK       | 25      | 25        | 18.45                    | 18.45                       | 18.45                     |                           |             |  |
| 10              | QPSK       | 50      | 0         | 18.45                    | 18.59                       | 18.09                     | 20                        | 0           |  |
| 10              | 16QAM      | 1       | 0         | 18.44                    | 18.72                       | 18.52                     |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 18.30                    | 18.16                       | 18.36                     |                           |             |  |
| 10              | 16QAM      | 1       | 49        | 18.32                    | 18.24                       | 18.30                     | 20                        | 0           |  |
| 10              | 16QAM      | 25      | 0         | 18.74                    | 18.68                       | 18.71                     |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 18.71                    | 18.62                       | 18.71                     |                           |             |  |
| 10              | 16QAM      | 25      | 25        | 18.42                    | 18.18                       | 18.36                     | 20                        | 0           |  |
| 10              | 16QAM      | 50      | 0         | 18.60                    | 18.75                       | 18.58                     |                           |             |  |
| 10              | 16QAM      | 1       | 0         | 18.38                    | 18.42                       | 18.41                     |                           |             |  |
| 10              | 16QAM      | 1       | 25        | 18.59                    | 18.55                       | 18.53                     | 20                        | 0           |  |
| 10              | 16QAM      | 1       | 49        | 18.60                    | 18.53                       | 18.58                     |                           |             |  |
| 10              | 16QAM      | 25      | 0         | 18.63                    | 18.54                       | 18.57                     |                           |             |  |
| 10              | 16QAM      | 25      | 12        | 18.35                    | 18.61                       | 18.25                     | 20                        | 0           |  |
| 10              | 16QAM      | 25      | 25        | 18.71                    | 18.44                       | 18.69                     |                           |             |  |
| 10              | 16QAM      | 50      | 0         | 18.42                    | 18.29                       | 18.45                     |                           |             |  |
| Channel         |            |         |           | 131997                   | 132322                      | 132647                    | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1712.5                   | 1745                        | 1777.5                    |                           |             |  |
| 5               | QPSK       | 1       | 0         | 18.65                    | 18.49                       | 18.68                     | 20                        | 0           |  |
| 5               | QPSK       | 1       | 12        | 18.63                    | 18.73                       | 18.77                     |                           |             |  |
| 5               | QPSK       | 1       | 24        | 18.38                    | 18.34                       | 18.57                     |                           |             |  |
| 5               | QPSK       | 12      | 0         | 18.55                    | 18.73                       | 18.51                     | 20                        | 0           |  |
| 5               | QPSK       | 12      | 7         | 18.43                    | 18.50                       | 18.38                     |                           |             |  |
| 5               | QPSK       | 12      | 13        | 18.46                    | 18.57                       | 18.42                     |                           |             |  |
| 5               | QPSK       | 25      | 0         | 18.29                    | 18.68                       | 18.19                     | 20                        | 0           |  |
| 5               | 16QAM      | 1       | 0         | 18.37                    | 18.57                       | 18.37                     |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 18.35                    | 18.24                       | 18.41                     |                           |             |  |
| 5               | 16QAM      | 1       | 24        | 18.33                    | 18.22                       | 18.22                     | 20                        | 0           |  |
| 5               | 16QAM      | 12      | 0         | 18.62                    | 18.59                       | 18.60                     |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 18.23                    | 18.15                       | 18.26                     |                           |             |  |
| 5               | 16QAM      | 12      | 13        | 18.57                    | 18.06                       | 18.51                     | 20                        | 0           |  |
| 5               | 16QAM      | 25      | 0         | 18.70                    | 18.70                       | 18.69                     |                           |             |  |
| 5               | 16QAM      | 1       | 0         | 18.47                    | 18.59                       | 18.50                     |                           |             |  |
| 5               | 16QAM      | 1       | 12        | 18.64                    | 18.46                       | 18.58                     | 20                        | 0           |  |
| 5               | 16QAM      | 1       | 24        | 18.58                    | 18.52                       | 18.56                     |                           |             |  |
| 5               | 16QAM      | 12      | 0         | 18.32                    | 18.38                       | 18.35                     |                           |             |  |
| 5               | 16QAM      | 12      | 7         | 18.53                    | 18.59                       | 18.47                     | 20                        | 0           |  |
| 5               | 16QAM      | 12      | 13        | 18.74                    | 18.42                       | 18.72                     |                           |             |  |
| 5               | 16QAM      | 25      | 0         | 18.25                    | 18.25                       | 18.38                     |                           |             |  |
| Channel         |            |         |           | 131987                   | 132322                      | 132657                    | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1711.5                   | 1745                        | 1778.5                    |                           |             |  |
| 3               | QPSK       | 1       | 0         | 18.63                    | 18.49                       | 18.64                     | 20                        | 0           |  |
| 3               | QPSK       | 1       | 8         | 18.68                    | 18.60                       | 18.61                     |                           |             |  |
| 3               | QPSK       | 1       | 14        | 18.29                    | 18.43                       | 18.37                     |                           |             |  |
| 3               | QPSK       | 8       | 0         | 18.58                    | 18.69                       | 18.48                     | 20                        | 0           |  |
| 3               | QPSK       | 8       | 4         | 18.47                    | 18.48                       | 18.42                     |                           |             |  |
| 3               | QPSK       | 8       | 7         | 18.51                    | 18.64                       | 18.40                     |                           |             |  |
| 3               | QPSK       | 15      | 0         | 18.39                    | 18.61                       | 18.10                     | 20                        | 0           |  |
| 3               | 16QAM      | 1       | 0         | 18.40                    | 18.69                       | 18.59                     |                           |             |  |
| 3               | 16QAM      | 1       | 8         | 18.25                    | 18.08                       | 18.31                     |                           |             |  |
| 3               | 16QAM      | 1       | 14        | 18.37                    | 18.36                       | 18.37                     | 20                        | 0           |  |
| 3               | 16QAM      | 8       | 0         | 18.54                    | 18.62                       | 18.56                     |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 18.30                    | 18.16                       | 18.33                     |                           |             |  |
| 3               | 16QAM      | 8       | 7         | 18.46                    | 18.16                       | 18.40                     | 20                        | 0           |  |
| 3               | 16QAM      | 15      | 0         | 18.60                    | 18.70                       | 18.58                     |                           |             |  |
| 3               | 16QAM      | 1       | 8         | 18.41                    | 18.51                       | 18.44                     |                           |             |  |
| 3               | 16QAM      | 1       | 8         | 18.53                    | 18.40                       | 18.47                     | 20                        | 0           |  |
| 3               | 16QAM      | 1       | 14        | 18.56                    | 18.42                       | 18.54                     |                           |             |  |
| 3               | 16QAM      | 8       | 0         | 18.36                    | 18.36                       | 18.39                     |                           |             |  |
| 3               | 16QAM      | 8       | 4         | 18.40                    | 18.51                       | 18.34                     | 20                        | 0           |  |
| 3               | 16QAM      | 8       | 7         | 18.61                    | 18.43                       | 18.59                     |                           |             |  |
| 3               | 16QAM      | 15      | 0         | 18.35                    | 18.26                       | 18.38                     |                           |             |  |
| Channel         |            |         |           | 131979                   | 132322                      | 132695                    | Tune-up<br>limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 1710.7                   | 1745                        | 1779.3                    |                           |             |  |
| 1.4             | QPSK       | 1       | 0         | 18.69                    | 18.50                       | 18.67                     | 20                        | 0           |  |
| 1.4             | QPSK       | 1       | 3         | 18.81                    | 18.80                       | 18.72                     |                           |             |  |
| 1.4             | QPSK       | 1       | 5         | 18.27                    | 18.57                       | 18.33                     |                           |             |  |
| 1.4             | QPSK       | 3       | 0         | 18.68                    | 18.73                       | 18.48                     | 20                        | 0           |  |
| 1.4             | QPSK       | 3       | 1         | 18.46                    | 18.45                       | 18.55                     |                           |             |  |
| 1.4             | QPSK       | 3       | 3         | 18.43                    | 18.63                       | 18.40                     |                           |             |  |
| 1.4             | QPSK       | 3       | 3         | 18.36                    | 18.36                       | 18.57                     | 20                        | 0           |  |
| 1.4             | 16QAM      | 1       | 0         | 18.48                    | 18.67                       | 18.52                     |                           |             |  |
| 1.4             | 16QAM      | 1       | 5         | 18.22                    | 18.24                       | 18.26                     |                           |             |  |
| 1.4             | 16QAM      | 1       | 3         | 18.64                    | 18.52                       | 18.62                     | 20                        | 0           |  |
| 1.4             | 16QAM      | 3       | 0         | 18.30                    | 18.03                       | 18.33                     |                           |             |  |
| 1.4             | 16QAM      | 3       | 3         | 18.43                    | 18.17                       | 18.37                     |                           |             |  |
| 1.4             | 16QAM      | 6       | 0         | 18.58                    | 18.75                       | 18.56                     | 20                        | 0           |  |
| 1.4             | 16QAM      | 1       | 0         | 18.46                    | 18.41                       | 18.49                     |                           |             |  |
| 1.4             | 16QAM      | 1       | 3         | 18.50                    | 18.40                       | 18.44                     |                           |             |  |
| 1.4             | 16QAM      | 1       | 5         | 18.64                    | 18.48                       | 18.62                     | 20                        | 0           |  |
| 1.4             | 16QAM      | 3       | 0         | 18.35                    | 18.36                       | 18.38                     |                           |             |  |
| 1.4             | 16QAM      | 3       | 3         | 18.39                    | 18.39                       | 18.33                     |                           |             |  |
| 1.4             | 16QAM      | 3       | 3         | 18.73                    | 18.44                       | 18.71                     | 20                        | 0           |  |
| 1.4             | 16QAM      | 6       | 0         | 18.31                    | 18.22                       | 18.34                     |                           |             |  |

| Band 38         |            |         |           |                             |                              |                              |                        |             |  |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------|------------------------------|------------------------|-------------|--|
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Main<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Channel         |            |         |           | 37850                       | 38000                        | 38150                        |                        |             |  |
| Frequency (MHz) |            |         |           | 2580                        | 2595                         | 2610                         |                        |             |  |
| 20              | QPSK       | 1       | 0         | 20.70                       | 20.59                        | 20.70                        |                        |             |  |
| 20              | QPSK       | 1       | 49        | 21.11                       | 21.14                        | 21.01                        | 22                     | 0           |  |
| 20              | QPSK       | 1       | 99        | 20.73                       | 20.60                        | 20.71                        |                        |             |  |
| 20              | QPSK       | 50      | 0         | 20.53                       | 20.75                        | 20.73                        |                        |             |  |
| 20              | QPSK       | 50      | 24        | 20.53                       | 20.64                        | 20.68                        | 22                     | 0           |  |
| 20              | QPSK       | 50      | 50        | 20.28                       | 20.51                        | 20.49                        |                        |             |  |
| 20              | QPSK       | 100     | 0         | 20.33                       | 20.53                        | 20.39                        |                        |             |  |
| 20              | 16QAM      | 1       | 0         | 20.70                       | 20.73                        | 20.81                        | 22                     | 0           |  |
| 20              | 16QAM      | 1       | 49        | 20.75                       | 20.51                        | 20.47                        |                        |             |  |
| 20              | 16QAM      | 1       | 99        | 20.51                       | 20.40                        | 20.37                        |                        |             |  |
| 20              | 16QAM      | 50      | 0         | 20.64                       | 20.58                        | 20.68                        | 22                     | 0           |  |
| 20              | 16QAM      | 50      | 24        | 20.36                       | 20.37                        | 20.34                        |                        |             |  |
| 20              | 16QAM      | 50      | 50        | 20.55                       | 20.24                        | 20.42                        |                        |             |  |
| 20              | 16QAM      | 100     | 0         | 20.81                       | 20.63                        | 20.55                        | 22                     | 0           |  |
| 20              | 64QAM      | 1       | 0         | 20.41                       | 20.66                        | 20.58                        |                        |             |  |
| 20              | 64QAM      | 1       | 49        | 20.16                       | 20.42                        | 20.27                        |                        |             |  |
| 20              | 64QAM      | 1       | 99        | 20.78                       | 20.75                        | 20.82                        | 22                     | 0           |  |
| 20              | 64QAM      | 50      | 0         | 20.33                       | 20.27                        | 20.50                        |                        |             |  |
| 20              | 64QAM      | 50      | 24        | 20.50                       | 20.38                        | 20.61                        |                        |             |  |
| 20              | 64QAM      | 50      | 50        | 20.73                       | 20.78                        | 20.77                        | 22                     | 0           |  |
| 20              | 64QAM      | 100     | 0         | 20.06                       | 20.73                        | 20.23                        |                        |             |  |
| Channel         |            |         |           | 37825                       | 38000                        | 38175                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                         | 2612.5                       |                        |             |  |
| 15              | QPSK       | 1       | 0         | 20.62                       | 20.47                        | 20.61                        |                        | 22          |  |
| 15              | QPSK       | 1       | 37        | 20.96                       | 21.09                        | 20.96                        |                        |             |  |
| 15              | QPSK       | 1       | 74        | 20.00                       | 20.60                        | 20.56                        |                        |             |  |
| 15              | QPSK       | 36      | 0         | 20.35                       | 20.61                        | 20.59                        | 22                     | 0           |  |
| 15              | QPSK       | 36      | 20        | 20.49                       | 20.50                        | 20.49                        |                        |             |  |
| 15              | QPSK       | 36      | 39        | 20.28                       | 20.51                        | 20.38                        |                        |             |  |
| 15              | QPSK       | 75      | 0         | 20.22                       | 20.44                        | 20.23                        | 22                     | 0           |  |
| 15              | 16QAM      | 1       | 0         | 20.64                       | 20.73                        | 20.81                        |                        |             |  |
| 15              | 16QAM      | 1       | 37        | 20.62                       | 20.45                        | 20.31                        |                        |             |  |
| 15              | 16QAM      | 1       | 74        | 20.40                       | 20.25                        | 20.35                        | 22                     | 0           |  |
| 15              | 16QAM      | 36      | 0         | 20.48                       | 20.57                        | 20.52                        |                        |             |  |
| 15              | 16QAM      | 36      | 20        | 20.29                       | 20.29                        | 20.27                        |                        |             |  |
| 15              | 16QAM      | 36      | 39        | 20.50                       | 20.17                        | 20.37                        | 22                     | 0           |  |
| 15              | 16QAM      | 75      | 0         | 20.71                       | 20.56                        | 20.75                        |                        |             |  |
| 15              | 64QAM      | 1       | 0         | 20.37                       | 20.50                        | 20.54                        |                        |             |  |
| 15              | 64QAM      | 1       | 37        | 20.35                       | 20.27                        | 20.30                        | 22                     | 0           |  |
| 15              | 64QAM      | 1       | 74        | 20.69                       | 20.74                        | 20.73                        |                        |             |  |
| 15              | 64QAM      | 36      | 0         | 20.17                       | 20.16                        | 20.34                        |                        |             |  |
| 15              | 64QAM      | 36      | 20        | 20.44                       | 20.19                        | 20.55                        | 22                     | 0           |  |
| 15              | 64QAM      | 36      | 39        | 20.68                       | 20.64                        | 20.72                        |                        |             |  |
| 15              | 64QAM      | 75      | 0         | 20.33                       | 20.58                        | 20.18                        |                        |             |  |
| Channel         |            |         |           | 37800                       | 38000                        | 38200                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2575                        | 2595                         | 2615                         |                        |             |  |
| 10              | QPSK       | 1       | 0         | 20.63                       | 20.50                        | 20.69                        |                        | 22          |  |
| 10              | QPSK       | 1       | 25        | 21.08                       | 21.09                        | 20.98                        |                        |             |  |
| 10              | QPSK       | 1       | 49        | 20.70                       | 20.45                        | 20.71                        |                        |             |  |
| 10              | QPSK       | 25      | 0         | 20.47                       | 20.69                        | 20.54                        | 22                     | 0           |  |
| 10              | QPSK       | 25      | 12        | 20.53                       | 20.56                        | 20.63                        |                        |             |  |
| 10              | QPSK       | 25      | 25        | 20.10                       | 20.43                        | 20.44                        |                        |             |  |
| 10              | QPSK       | 50      | 0         | 20.33                       | 20.38                        | 20.27                        | 22                     | 0           |  |
| 10              | 16QAM      | 1       | 0         | 20.67                       | 20.70                        | 20.68                        |                        |             |  |
| 10              | 16QAM      | 1       | 25        | 20.75                       | 20.45                        | 20.47                        |                        |             |  |
| 10              | 16QAM      | 1       | 49        | 20.46                       | 20.25                        | 20.28                        | 22                     | 0           |  |
| 10              | 16QAM      | 25      | 0         | 20.48                       | 20.52                        | 20.52                        |                        |             |  |
| 10              | 16QAM      | 25      | 12        | 20.23                       | 20.30                        | 20.21                        |                        |             |  |
| 10              | 16QAM      | 25      | 25        | 20.41                       | 20.14                        | 20.28                        | 22                     | 0           |  |
| 10              | 16QAM      | 50      | 0         | 20.81                       | 20.50                        | 20.85                        |                        |             |  |
| 10              | 64QAM      | 1       | 0         | 20.22                       | 20.50                        | 20.39                        |                        |             |  |
| 10              | 64QAM      | 1       | 25        | 20.07                       | 20.41                        | 20.18                        | 22                     | 0           |  |
| 10              | 64QAM      | 1       | 49        | 20.78                       | 20.63                        | 20.82                        |                        |             |  |
| 10              | 64QAM      | 25      | 0         | 20.32                       | 20.16                        | 20.49                        |                        |             |  |
| 10              | 64QAM      | 25      | 12        | 20.44                       | 20.31                        | 20.55                        | 22                     | 0           |  |
| 10              | 64QAM      | 25      | 25        | 20.59                       | 20.65                        | 20.63                        |                        |             |  |
| 10              | 64QAM      | 50      | 0         | 20.45                       | 20.69                        | 20.20                        |                        |             |  |
| Channel         |            |         |           | 37775                       | 38000                        | 38225                        | Tune-up limit<br>(dBm) | MPR<br>(dB) |  |
| Frequency (MHz) |            |         |           | 2573.5                      | 2595                         | 2617.5                       |                        |             |  |
| 5               | QPSK       | 1       | 0         | 20.65                       | 20.57                        | 20.55                        |                        | 22          |  |
| 5               | QPSK       | 1       | 12        | 21.02                       | 21.10                        | 20.84                        |                        |             |  |
| 5               | QPSK       | 1       | 24        | 20.62                       | 20.43                        | 20.55                        |                        |             |  |
| 5               | QPSK       | 12      | 0         | 20.36                       | 20.56                        | 20.60                        | 22                     | 0           |  |
| 5               | QPSK       | 12      | 7         | 20.48                       | 20.48                        | 20.66                        |                        |             |  |
| 5               | QPSK       | 12      | 13        | 20.20                       | 20.36                        | 20.46                        |                        |             |  |
| 5               | QPSK       | 25      | 0         | 20.14                       | 20.53                        | 20.39                        | 22                     | 0           |  |
| 5               | 16QAM      | 1       | 0         | 20.69                       | 20.65                        | 20.73                        |                        |             |  |
| 5               | 16QAM      | 1       | 12        | 20.64                       | 20.48                        | 20.43                        |                        |             |  |
| 5               | 16QAM      | 1       | 24        | 20.36                       | 20.27                        | 20.28                        | 22                     | 0           |  |
| 5               | 16QAM      | 12      | 0         | 20.59                       | 20.49                        | 20.63                        |                        |             |  |
| 5               | 16QAM      | 12      | 7         | 20.21                       | 20.16                        | 20.19                        |                        |             |  |
| 5               | 16QAM      | 12      | 13        | 20.43                       | 20.11                        | 20.30                        | 22                     | 0           |  |
| 5               | 16QAM      | 25      | 0         | 20.78                       | 20.48                        | 20.82                        |                        |             |  |
| 5               | 64QAM      | 1       | 0         | 20.41                       | 20.50                        | 20.58                        |                        |             |  |
| 5               | 64QAM      | 1       | 12        | 20.09                       | 20.32                        | 20.20                        | 22                     | 0           |  |
| 5               | 64QAM      | 1       | 24        | 20.62                       | 20.69                        | 20.66                        |                        |             |  |
| 5               | 64QAM      | 12      | 0         | 20.16                       | 20.22                        | 20.36                        |                        |             |  |
| 5               | 64QAM      | 12      | 7         | 20.49                       | 20.19                        | 20.60                        | 22                     | 0           |  |
| 5               | 64QAM      | 12      | 13        | 20.70                       | 20.76                        | 20.74                        |                        |             |  |
| 5               | 64QAM      | 25      | 0         | 20.40                       | 20.56                        | 20.13                        |                        |             |  |

### Conducted Power for WLAN/Bluetooth

| 2.4GHz WLAN_Ant 2 |                   |                 |                     | Full Power    |                     | Head          |                     | Hotspot       |                     | Body Worn     |                     | Handheld      |                     | 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 |
| 2.4GHz WLAN       | 802.11b 1Mbps     | 1               | 2412                | 18.21         | 20.00               | 18.75         | 18.50               | 17.08         | 18.00               | 17.08         | 18.00               | 18.41         | 20.00               | 99.31         |
|                   |                   | 6               | 2437                | 18.18         | 20.00               | 18.78         | 18.50               | 17.13         | 18.00               | 17.13         | 18.00               | 18.18         | 20.00               |               |
|                   |                   | 11              | 2462                | 18.31         | 20.00               | 18.82         | 18.50               | 17.17         | 18.00               | 17.17         | 18.00               | 18.31         | 20.00               |               |
|                   | 802.11g 6Mbps     | 1               | 2412                | 13.68         | 15.00               | 13.68         | 15.00               | 13.68         | 15.00               | 13.68         | 15.00               | 13.68         | 15.00               | 96.97         |
|                   |                   | 2               | 2417                | 18.72         | 20.00               | 18.58         | 18.50               | 17.12         | 18.00               | 17.12         | 18.50               | 18.72         | 20.00               |               |
|                   |                   | 6               | 2437                | 18.24         | 20.00               | 18.63         | 18.50               | 17.32         | 18.00               | 17.32         | 18.50               | 18.24         | 20.00               |               |
|                   | 802.11n-HT20 MCS0 | 11              | 2462                | 15.34         | 16.50               | 15.34         | 16.50               | 15.34         | 16.50               | 15.34         | 16.50               | 15.34         | 16.50               | 96.77         |
|                   |                   | 1               | 2412                | 12.66         | 14.00               | 12.66         | 14.00               | 12.66         | 14.00               | 12.66         | 14.00               | 12.66         | 14.00               |               |
|                   |                   | 2               | 2417                | 17.03         | 18.00               | 16.63         | 18.50               | 17.03         | 18.00               | 17.03         | 18.00               | 17.03         | 18.00               |               |
|                   | 802.11n-HT40 MCS0 | 6               | 2437                | 16.92         | 18.50               | 16.92         | 18.50               | 16.92         | 18.50               | 16.92         | 18.50               | 16.92         | 18.50               | 93.73         |
|                   |                   | 11              | 2462                | 15.05         | 16.50               | 15.05         | 16.50               | 15.05         | 16.50               | 15.05         | 16.50               | 15.05         | 16.50               |               |
|                   |                   | 3               | 2422                | 11.54         | 13.00               | 11.54         | 13.00               | 11.54         | 13.00               | 11.54         | 13.00               | 11.54         | 13.00               |               |
|                   | 802.11n-HT40 MCS0 | 6               | 2437                | 14.52         | 16.00               | 14.52         | 16.00               | 14.52         | 16.00               | 14.52         | 16.00               | 14.52         | 16.00               | 93.73         |
|                   |                   | 9               | 2452                | 13.22         | 15.00               | 13.22         | 15.00               | 13.22         | 15.00               | 13.22         | 15.00               | 13.22         | 15.00               |               |
|                   |                   | 1               | 2412                | 12.66         | 14.00               | 12.66         | 14.00               | 12.66         | 14.00               | 12.66         | 14.00               | 12.66         | 14.00               |               |

| 5.2GHz WLAN_Ant 2 |                     |                 |                     | Full Power    |                     | Head          |                     | Hotspot       |                     | Body Worn     |                     | Handheld      |                     | 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 |
| 5.2GHz WLAN       | 802.11a 6Mbps       | 36              | 5180                | 17.37         | 19.00               | 16.87         | 18.50               | 16.99         | 18.50               | 17.37         | 19.00               | 17.37         | 19.00               | 96.97         |
|                   |                     | 40              | 5200                | 17.75         | 19.50               | 16.68         | 18.50               | 16.84         | 18.50               | 17.75         | 19.50               | 17.75         | 19.50               |               |
|                   |                     | 44              | 5220                | 17.81         | 19.50               | 16.73         | 18.50               | 16.90         | 18.50               | 17.81         | 19.50               | 17.81         | 19.50               |               |
|                   | 802.11n-HT20 MCS0   | 48              | 5240                | 17.85         | 19.50               | 16.88         | 18.50               | 16.74         | 18.50               | 17.85         | 19.50               | 17.85         | 19.50               | 96.77         |
|                   |                     | 36              | 5180                | 16.06         | 17.50               | 16.06         | 17.50               | 16.06         | 17.50               | 16.06         | 17.50               | 16.06         | 17.50               |               |
|                   |                     | 40              | 5200                | 17.60         | 19.50               | 16.53         | 18.50               | 16.50         | 18.50               | 17.60         | 19.50               | 17.60         | 19.50               |               |
|                   | 802.11n-HT40 MCS0   | 44              | 5220                | 17.74         | 19.50               | 16.64         | 18.50               | 16.64         | 18.50               | 17.74         | 19.50               | 17.74         | 19.50               | 93.73         |
|                   |                     | 48              | 5240                | 17.85         | 19.50               | 16.73         | 18.50               | 16.79         | 18.50               | 17.85         | 19.50               | 17.85         | 19.50               |               |
|                   |                     | 38              | 5190                | 16.61         | 18.50               | 16.61         | 18.50               | 16.61         | 18.50               | 16.61         | 18.50               | 16.61         | 18.50               |               |
|                   | 802.11ac-VHT20 MCS0 | 46              | 5230                | 16.62         | 18.50               | 16.62         | 18.50               | 16.62         | 18.50               | 16.62         | 18.50               | 16.62         | 18.50               | 96.79         |
|                   |                     | 36              | 5180                | 16.13         | 17.50               | 16.13         | 17.50               | 16.13         | 17.50               | 16.13         | 17.50               | 16.13         | 17.50               |               |
|                   |                     | 40              | 5200                | 17.65         | 19.50               | 16.57         | 18.50               | 16.70         | 18.50               | 17.65         | 19.50               | 17.65         | 19.50               |               |
|                   | 802.11ac-VHT40 MCS0 | 44              | 5220                | 17.79         | 19.50               | 16.74         | 18.50               | 16.68         | 18.50               | 17.79         | 19.50               | 17.79         | 19.50               | 93.75         |
|                   |                     | 48              | 5240                | 17.81         | 19.50               | 16.76         | 18.50               | 16.79         | 18.50               | 17.81         | 19.50               | 17.81         | 19.50               |               |
|                   |                     | 38              | 5190                | 16.63         | 18.50               | 16.63         | 18.50               | 16.63         | 18.50               | 16.63         | 18.50               | 16.63         | 18.50               |               |
|                   | 802.11ac-VHT80 MCS0 | 46              | 5230                | 16.65         | 18.50               | 16.65         | 18.50               | 16.65         | 18.50               | 16.65         | 18.50               | 16.65         | 18.50               | 88.23         |
|                   |                     | 42              | 5210                | 14.55         | 16.00               | 14.55         | 16.00               | 14.55         | 16.00               | 14.55         | 16.00               | 14.55         | 16.00               |               |
|                   |                     | 42              | 5210                | 14.55         | 16.00               | 14.55         | 16.00               | 14.55         | 16.00               | 14.55         | 16.00               | 14.55         | 16.00               |               |

| 5.3GHz WLAN_Ant 2 |                     |                 |                     | Full Power    |                     | Head          |                     | Body Worn     |                     | Handheld      |                     | 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 |
| 5.3GHz WLAN       | 802.11a 6Mbps       | 52              | 5260                | 17.80         | 19.50               | 16.79         | 18.50               | 17.80         | 19.50               | 17.80         | 19.50               | 96.97         |
|                   |                     | 56              | 5280                | 18.00         | 19.50               | 16.99         | 18.50               | 18.00         | 19.50               | 18.00         | 19.50               |               |
|                   |                     | 60              | 5300                | 17.85         | 19.50               | 16.93         | 18.50               | 17.85         | 19.50               | 17.85         | 19.50               |               |
|                   | 802.11n-HT20 MCS0   | 64              | 5320                | 17.97         | 19.50               | 16.90         | 18.50               | 17.97         | 19.50               | 17.97         | 19.50               | 96.77         |
|                   |                     | 52              | 5260                | 17.82         | 19.50               | 16.79         | 18.50               | 17.82         | 19.50               | 17.82         | 19.50               |               |
|                   |                     | 56              | 5280                | 17.79         | 19.50               | 16.70         | 18.50               | 17.79         | 19.50               | 17.79         | 19.50               |               |
|                   | 802.11n-HT40 MCS0   | 60              | 5300                | 17.83         | 19.50               | 16.83         | 18.50               | 17.83         | 19.50               | 17.83         | 19.50               | 93.73         |
|                   |                     | 64              | 5320                | 17.30         | 19.00               | 16.78         | 18.50               | 17.30         | 19.00               | 17.30         | 19.00               |               |
|                   |                     | 54              | 5270                | 16.65         | 18.50               | 16.65         | 18.50               | 16.65         | 18.50               | 16.65         | 18.50               |               |
|                   | 802.11ac-VHT20 MCS0 | 62              | 5310                | 16.17         | 18.00               | 16.17         | 18.00               | 16.17         | 18.00               | 16.17         | 18.00               | 96.79         |
|                   |                     | 52              | 5260                | 17.85         | 19.50               | 16.78         | 18.50               | 17.85         | 19.50               | 17.85         | 19.50               |               |
|                   |                     | 56              | 5280                | 17.83         | 19.50               | 16.82         | 18.50               | 17.83         | 19.50               | 17.83         | 19.50               |               |
|                   | 802.11ac-VHT40 MCS0 | 60              | 5300                | 17.87         | 19.50               | 16.77         | 18.50               | 17.87         | 19.50               | 17.87         | 19.50               | 93.75         |
|                   |                     | 64              | 5320                | 17.35         | 19.00               | 16.89         | 18.50               | 17.35         | 19.00               | 17.35         | 19.50               |               |
|                   |                     | 54              | 5270                | 16.79         | 18.50               | 16.70         | 18.50               | 16.70         | 18.50               | 16.70         | 18.50               |               |
|                   | 802.11ac-VHT80 MCS0 | 62              | 5310                | 16.23         | 18.00               | 16.23         | 18.00               | 16.23         | 18.00               | 16.23         | 18.00               | 88.23         |
|                   |                     | 58              | 5290                | 14.79         | 16.00               | 14.79         | 16.00               | 14.79         | 16.00               | 14.79         | 16.00               |               |
|                   |                     | 58              | 5290                | 14.79         | 16.00               | 14.79         | 16.00               | 14.79         | 16.00               | 14.79         | 16.00               |               |

| 5.5GHz WLAN_Ant 2   |                     |                 | Full Power          |               | Head                |               | Body Worn           |               | Handheld            |               | 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 |              |       |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100             | 5500                | 17.84         | 19.50               | 15.84         | 17.50               | 14.13         | 15.50               | 17.94         | 19.50        | 96.97 |
|                     |                     | 116             | 5580                | 17.82         | 19.50               | 15.76         | 17.50               | 14.15         | 15.50               | 17.82         | 19.50        |       |
|                     |                     | 124             | 5620                | 17.79         | 19.50               | 15.75         | 17.50               | 14.12         | 15.50               | 17.79         | 19.50        |       |
|                     |                     | 140             | 5700                | 17.78         | 19.50               | 15.74         | 17.50               | 14.16         | 15.50               | 17.78         | 19.50        |       |
|                     |                     | 144             | 5720                | 17.81         | 19.50               | 15.78         | 17.50               | 13.97         | 15.50               | 17.81         | 19.50        |       |
|                     | 802.11n-HT20 MCS0   | 100             | 5500                | 17.82         | 19.50               | 15.77         | 17.50               | 13.79         | 15.50               | 17.82         | 19.50        | 96.77 |
|                     |                     | 116             | 5580                | 17.74         | 19.50               | 15.72         | 17.50               | 13.75         | 15.50               | 17.74         | 19.50        |       |
|                     |                     | 124             | 5620                | 17.69         | 19.50               | 15.67         | 17.50               | 13.62         | 15.50               | 17.69         | 19.50        |       |
|                     |                     | 132             | 5660                | 17.59         | 19.50               | 15.57         | 17.50               | 13.69         | 15.50               | 17.59         | 19.50        |       |
|                     |                     | 140             | 5700                | 16.20         | 18.00               | 15.62         | 17.50               | 13.75         | 15.50               | 16.20         | 18.00        |       |
|                     | 802.11n-HT40 MCS0   | 144             | 5720                | 17.65         | 19.50               | 15.61         | 17.50               | 13.70         | 15.50               | 17.65         | 19.50        | 93.73 |
|                     |                     | 102             | 5510                | 16.73         | 18.50               | 15.68         | 17.50               | 13.58         | 15.50               | 16.73         | 18.50        |       |
|                     |                     | 110             | 5550                | 16.70         | 18.50               | 15.69         | 17.50               | 13.59         | 15.50               | 16.70         | 18.50        |       |
|                     |                     | 126             | 5630                | 16.76         | 18.50               | 15.66         | 17.50               | 13.57         | 15.50               | 16.76         | 18.50        |       |
|                     |                     | 134             | 5670                | 16.50         | 18.50               | 15.50         | 17.50               | 13.57         | 15.50               | 16.50         | 18.50        |       |
|                     | 802.11ac-VHT20 MCS0 | 142             | 5710                | 16.59         | 18.50               | 15.53         | 17.50               | 13.61         | 15.50               | 16.59         | 18.50        | 96.79 |
|                     |                     | 100             | 5500                | 17.60         | 19.50               | 15.87         | 17.50               | 13.95         | 15.50               | 17.60         | 19.50        |       |
|                     |                     | 116             | 5580                | 17.76         | 19.50               | 15.69         | 17.50               | 13.88         | 15.50               | 17.76         | 19.50        |       |
|                     |                     | 124             | 5620                | 17.72         | 19.50               | 15.68         | 17.50               | 13.70         | 15.50               | 17.72         | 19.50        |       |
|                     |                     | 132             | 5660                | 17.62         | 19.50               | 15.58         | 17.50               | 13.79         | 15.50               | 17.62         | 19.50        |       |
|                     | 802.11ac-VHT40 MCS0 | 140             | 5700                | 16.26         | 18.00               | 15.61         | 17.50               | 13.65         | 15.50               | 16.26         | 18.00        | 93.75 |
|                     |                     | 144             | 5720                | 17.73         | 19.50               | 15.64         | 17.50               | 13.75         | 15.50               | 17.73         | 19.50        |       |
|                     |                     | 102             | 5510                | 16.75         | 18.50               | 15.66         | 17.50               | 13.67         | 15.50               | 16.75         | 18.50        |       |
|                     |                     | 110             | 5550                | 16.72         | 18.50               | 15.71         | 17.50               | 13.68         | 15.50               | 16.72         | 18.50        |       |
|                     |                     | 126             | 5630                | 16.79         | 18.50               | 15.76         | 17.50               | 13.83         | 15.50               | 16.79         | 18.50        |       |
| 802.11ac-VHT80 MCS0 | 134                 | 5670            | 16.53               | 18.50         | 15.54               | 17.50         | 13.59               | 15.50         | 16.53               | 18.50         | 88.23        |       |
|                     | 142                 | 5710            | 16.62               | 18.50         | 15.53               | 17.50         | 13.67               | 15.50         | 16.62               | 18.50         |              |       |
|                     | 106                 | 5530            | 15.56               | 17.00         | 15.56               | 17.00         | 13.96               | 15.50         | 15.56               | 17.00         |              |       |
|                     | 126                 | 5610            | 15.06               | 17.00         | 16.06               | 17.50         | 13.95               | 15.50         | 16.06               | 17.50         |              |       |
|                     | 135                 | 5698            | 15.08               | 17.00         | 16.08               | 17.50         | 13.93               | 15.50         | 16.08               | 17.50         |              |       |

#### BT BR/EDR

| 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            | 9.27                | 9.30 | 9.38 | 7.21 | 6.53 | 6.30 | 7.24 | 6.50 | 6.21 | 11            |
|           | CH 39   | 2441            | 9.53                | 9.54 | 9.56 | 7.43 | 6.65 | 6.40 | 7.41 | 6.65 | 6.37 |               |
|           | CH 78   | 2480            | 9.44                | 9.48 | 9.49 | 7.34 | 6.71 | 6.34 | 7.10 | 6.67 | 6.32 |               |

#### BLE\_1M/2M

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |
|---------------|---------|-----------------|---------------------|-------|
|               |         |                 | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402            | 0.26                | 0.34  |
|               | CH 19   | 2440            | 1.71                | 1.87  |
|               | CH 39   | 2480            | 1.17                | 1.13  |
| Tune-up Limit |         |                 | 3.5                 | 3.5   |