



REPORT No.: SZ26010451S01

## Annex E Conducted Power

**Note:**

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

| GSM850          |  | Burst Average Power (dBm) |       |       | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |       | Tune-up<br>Limit<br>(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   |  | 33.07                     | 33.09 | 33.14 | 34.00                     | 24.07                     | 24.09 | 24.14 | 25.00                     |
| GPRS 1 Tx slot  |  | 33.11                     | 33.12 | 33.15 | 34.00                     | 24.11                     | 24.12 | 24.15 | 25.00                     |
| GPRS 2 Tx slots |  | 31.81                     | 31.87 | 31.83 | 32.50                     | 25.81                     | 25.87 | 25.83 | 26.50                     |
| GPRS 3 Tx slots |  | 30.44                     | 30.54 | 30.49 | 31.00                     | 26.18                     | 26.28 | 26.23 | 26.74                     |
| GPRS 4 Tx slots |  | 29.02                     | 28.96 | 29.06 | 29.50                     | 26.02                     | 25.96 | 26.06 | 26.50                     |
| EDGE 1 Tx slot  |  | 25.84                     | 25.60 | 25.62 | 26.50                     | 16.84                     | 16.60 | 16.62 | 17.50                     |
| EDGE 2 Tx slots |  | 24.66                     | 24.59 | 24.64 | 25.00                     | 18.66                     | 18.59 | 18.64 | 19.00                     |
| EDGE 3 Tx slots |  | 22.95                     | 22.92 | 23.04 | 23.50                     | 18.69                     | 18.66 | 18.78 | 19.24                     |
| EDGE 4 Tx slots |  | 21.38                     | 21.33 | 21.41 | 22.00                     | 18.38                     | 18.33 | 18.41 | 19.00                     |
| Mode            |  |                           | Max.  | 33.15 |                           |                           | Max.  | 26.28 |                           |
| Attenuator      |  | Cable Loss : 0.6          |       |       |                           |                           |       |       |                           |
| Date            |  | 2/27                      |       |       |                           |                           |       |       |                           |

| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(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   |  | 30.21                     | 30.46 | 30.42  | 31.00                     | 21.21                     | 21.46 | 21.42  | 22.00                     |
| GPRS 1 Tx slot  |  | 30.27                     | 30.52 | 30.49  | 31.00                     | 21.27                     | 21.52 | 21.49  | 22.00                     |
| GPRS 2 Tx slots |  | 29.41                     | 29.80 | 29.77  | 30.50                     | 23.41                     | 23.80 | 23.77  | 24.50                     |
| GPRS 3 Tx slots |  | 28.11                     | 28.57 | 28.53  | 29.00                     | 23.85                     | 24.31 | 24.27  | 24.74                     |
| GPRS 4 Tx slots |  | 26.78                     | 27.17 | 27.14  | 27.50                     | 23.78                     | 24.17 | 24.14  | 24.50                     |
| EDGE 1 Tx slot  |  | 25.38                     | 25.62 | 25.64  | 26.00                     | 16.38                     | 16.62 | 16.64  | 17.00                     |
| EDGE 2 Tx slots |  | 24.27                     | 24.58 | 24.48  | 25.00                     | 18.27                     | 18.58 | 18.48  | 19.00                     |
| EDGE 3 Tx slots |  | 22.83                     | 23.21 | 23.22  | 24.00                     | 18.57                     | 18.95 | 18.96  | 19.74                     |
| EDGE 4 Tx slots |  | 20.86                     | 21.26 | 21.30  | 22.00                     | 17.86                     | 18.26 | 18.30  | 19.00                     |
| Mode            |  |                           | Max.  | 30.52  |                           |                           | Max.  | 24.31  |                           |
| Attenuator      |  | Cable Loss : 0.8          |       |        |                           |                           |       |        |                           |
| Date            |  | 2/27                      |       |        |                           |                           |       |        |                           |

| Band            |                    | WCDMA Band II (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA Band IV (dBm) |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA Band V (dBm) |       |       | Tune-up<br>Limit<br>(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     | RMC 12.2Kbps       | 22.73               | 22.75 | 22.62  | 23.50                     | 22.55               | 22.68  | 22.61  | 23.50                     | 22.42              | 22.57 | 22.56 | 23.50                     |
| 3GPP Rel 5      | HSDPA Subtest-1    | 21.98               | 22.06 | 22.03  | 23.00                     | 21.59               | 21.76  | 21.76  | 22.50                     | 21.32              | 21.47 | 21.48 | 22.50                     |
| 3GPP Rel 5      | HSDPA Subtest-2    | 22.04               | 22.22 | 22.20  | 23.00                     | 21.95               | 21.87  | 21.90  | 22.50                     | 21.41              | 21.65 | 21.53 | 22.50                     |
| 3GPP Rel 5      | HSDPA Subtest-3    | 21.59               | 21.75 | 21.62  | 22.50                     | 21.37               | 21.42  | 21.35  | 22.00                     | 20.95              | 21.16 | 21.08 | 22.00                     |
| 3GPP Rel 5      | HSDPA Subtest-4    | 21.61               | 21.66 | 21.64  | 22.50                     | 21.28               | 21.37  | 21.38  | 22.00                     | 21.00              | 21.07 | 21.11 | 22.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1 | 21.93               | 22.18 | 22.12  | 23.00                     | 21.66               | 21.86  | 21.84  | 22.50                     | 21.41              | 21.56 | 21.46 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2 | 22.07               | 22.23 | 22.18  | 23.00                     | 21.75               | 21.92  | 21.92  | 22.50                     | 21.49              | 21.52 | 21.51 | 22.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3 | 21.58               | 21.73 | 21.70  | 22.50                     | 21.22               | 21.43  | 21.41  | 22.00                     | 20.97              | 21.10 | 20.97 | 22.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4 | 21.60               | 21.75 | 21.71  | 22.50                     | 21.34               | 21.41  | 21.43  | 22.00                     | 20.98              | 21.11 | 20.99 | 22.00                     |
| 3GPP Rel 6      | HSUPA Subtest-1    | 22.11               | 22.28 | 22.27  | 23.00                     | 21.96               | 21.97  | 21.85  | 23.00                     | 21.44              | 21.63 | 21.44 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-2    | 21.67               | 21.80 | 21.72  | 23.00                     | 21.34               | 21.51  | 21.40  | 22.50                     | 21.03              | 21.23 | 21.01 | 22.00                     |
| 3GPP Rel 6      | HSUPA Subtest-3    | 22.14               | 22.30 | 22.20  | 23.00                     | 22.13               | 21.94  | 21.95  | 23.00                     | 21.61              | 21.58 | 21.62 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-4    | 21.98               | 22.19 | 22.19  | 23.00                     | 21.76               | 21.74  | 21.79  | 22.50                     | 21.48              | 21.54 | 21.43 | 22.50                     |
| 3GPP Rel 6      | HSUPA Subtest-5    | 22.12               | 22.27 | 22.28  | 23.00                     | 22.08               | 22.11  | 22.09  | 23.00                     | 21.54              | 21.78 | 21.57 | 22.50                     |
| Attenuator      |                    | Cable Loss          |       |        | 0.8                       | Cable Loss          |        |        | 0.8                       | Cable Loss         |       |       | 0.8                       |
| Mode            |                    |                     | Max.  | 22.75  |                           |                     | Max.   | 22.68  |                           |                    | Max.  | 22.57 |                           |
| Date            |                    | 2/27                |       |        |                           | 2/27                |        |        |                           | 2/27               |       |       |                           |

| Band 2 (1900MHz Band) (dBm)<br>Part 24E |            |         |           |             |                |              |                     |
|-----------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                 |            |         |           | 18700       | 18900          | 19100        |                     |
| Frequency (MHz)                         |            |         |           | 1860        | 1880           | 1900         |                     |
| 20                                      | QPSK       | 1       | 0         | 23.66       | 23.75          | 23.73        | 24.5                |
| 20                                      | QPSK       | 1       | 49        | 23.58       | 23.60          | 23.67        |                     |
| 20                                      | QPSK       | 1       | 99        | 23.55       | 23.62          | 23.70        |                     |
| 20                                      | QPSK       | 50      | 0         | 22.71       | 22.74          | 22.70        | 23.5                |
| 20                                      | QPSK       | 50      | 24        | 22.70       | 22.65          | 22.68        |                     |
| 20                                      | QPSK       | 50      | 50        | 22.58       | 22.61          | 22.61        |                     |
| 20                                      | QPSK       | 100     | 0         | 22.53       | 22.53          | 22.57        | 23.5                |
| 20                                      | 16QAM      | 1       | 0         | 22.34       | 22.38          | 22.38        |                     |
| 20                                      | 16QAM      | 1       | 49        | 22.21       | 22.19          | 22.18        |                     |
| 20                                      | 16QAM      | 1       | 99        | 22.48       | 22.51          | 22.54        | 22.5                |
| 20                                      | 16QAM      | 50      | 0         | 21.70       | 21.71          | 21.68        |                     |
| 20                                      | 16QAM      | 50      | 24        | 21.60       | 21.54          | 21.60        |                     |
| 20                                      | 16QAM      | 50      | 50        | 21.67       | 21.63          | 21.71        | 22.5                |
| 20                                      | 16QAM      | 100     | 0         | 21.54       | 21.46          | 21.49        |                     |
| Channel                                 |            |         |           | 18675       | 18900          | 19125        | Tune-up limit (dBm) |
| Frequency (MHz)                         |            |         |           | 1857.5      | 1880           | 1902.5       |                     |
| 15                                      | QPSK       | 1       | 0         | 23.65       | 23.73          | 23.71        | 24.5                |
| 15                                      | QPSK       | 1       | 37        | 23.50       | 23.59          | 23.60        |                     |
| 15                                      | QPSK       | 1       | 74        | 23.52       | 23.53          | 23.61        |                     |
| 15                                      | QPSK       | 36      | 0         | 22.70       | 22.66          | 22.62        | 23.5                |
| 15                                      | QPSK       | 36      | 20        | 22.65       | 22.60          | 22.61        |                     |
| 15                                      | QPSK       | 36      | 39        | 22.49       | 22.59          | 22.57        |                     |
| 15                                      | QPSK       | 75      | 0         | 22.46       | 22.49          | 22.48        | 23.5                |
| 15                                      | 16QAM      | 1       | 0         | 22.28       | 22.37          | 22.37        |                     |
| 15                                      | 16QAM      | 1       | 37        | 22.20       | 22.17          | 22.12        |                     |
| 15                                      | 16QAM      | 1       | 74        | 22.43       | 22.47          | 22.46        | 22.5                |
| 15                                      | 16QAM      | 36      | 0         | 21.66       | 21.66          | 21.58        |                     |
| 15                                      | 16QAM      | 36      | 20        | 21.54       | 21.44          | 21.51        |                     |
| 15                                      | 16QAM      | 36      | 39        | 21.64       | 21.54          | 21.66        | 22.5                |
| 15                                      | 16QAM      | 75      | 0         | 21.50       | 21.41          | 21.48        |                     |
| Channel                                 |            |         |           | 18650       | 18900          | 19150        | Tune-up limit (dBm) |
| Frequency (MHz)                         |            |         |           | 1855        | 1880           | 1905         |                     |
| 10                                      | QPSK       | 1       | 0         | 23.57       | 23.67          | 23.71        | 24.5                |
| 10                                      | QPSK       | 1       | 25        | 23.57       | 23.55          | 23.57        |                     |
| 10                                      | QPSK       | 1       | 49        | 23.47       | 23.59          | 23.66        |                     |
| 10                                      | QPSK       | 25      | 0         | 22.67       | 22.69          | 22.66        | 23.5                |
| 10                                      | QPSK       | 25      | 12        | 22.68       | 22.62          | 22.65        |                     |
| 10                                      | QPSK       | 25      | 25        | 22.57       | 22.60          | 22.51        |                     |
| 10                                      | QPSK       | 50      | 0         | 22.45       | 22.46          | 22.55        | 23.5                |
| 10                                      | 16QAM      | 1       | 0         | 22.32       | 22.32          | 22.31        |                     |
| 10                                      | 16QAM      | 1       | 25        | 22.16       | 22.12          | 22.14        |                     |
| 10                                      | 16QAM      | 1       | 49        | 22.39       | 22.47          | 22.53        | 22.5                |
| 10                                      | 16QAM      | 25      | 0         | 21.62       | 21.65          | 21.58        |                     |
| 10                                      | 16QAM      | 25      | 12        | 21.55       | 21.44          | 21.59        |                     |
| 10                                      | 16QAM      | 25      | 25        | 21.62       | 21.54          | 21.61        | 22.5                |
| 10                                      | 16QAM      | 50      | 0         | 21.50       | 21.43          | 21.44        |                     |
| Channel                                 |            |         |           | 18625       | 18900          | 19175        | Tune-up limit (dBm) |
| Frequency (MHz)                         |            |         |           | 1852.5      | 1880           | 1907.5       |                     |
| 5                                       | QPSK       | 1       | 0         | 23.62       | 23.70          | 23.70        | 24.5                |
| 5                                       | QPSK       | 1       | 12        | 23.54       | 23.51          | 23.61        |                     |
| 5                                       | QPSK       | 1       | 24        | 23.47       | 23.56          | 23.63        |                     |
| 5                                       | QPSK       | 12      | 0         | 22.72       | 22.69          | 22.66        | 23.5                |
| 5                                       | QPSK       | 12      | 7         | 22.62       | 22.57          | 22.61        |                     |
| 5                                       | QPSK       | 12      | 13        | 22.52       | 22.54          | 22.51        |                     |
| 5                                       | QPSK       | 25      | 0         | 22.43       | 22.43          | 22.55        | 23.5                |
| 5                                       | 16QAM      | 1       | 0         | 22.26       | 22.32          | 22.36        |                     |
| 5                                       | 16QAM      | 1       | 12        | 22.13       | 22.09          | 22.15        |                     |
| 5                                       | 16QAM      | 1       | 24        | 22.42       | 22.48          | 22.48        | 22.5                |
| 5                                       | 16QAM      | 12      | 0         | 21.67       | 21.65          | 21.60        |                     |
| 5                                       | 16QAM      | 12      | 7         | 21.57       | 21.51          | 21.53        |                     |
| 5                                       | 16QAM      | 12      | 13        | 21.58       | 21.54          | 21.62        | 22.5                |
| 5                                       | 16QAM      | 25      | 0         | 21.51       | 21.40          | 21.39        |                     |
| Channel                                 |            |         |           | 18615       | 18900          | 19185        | Tune-up limit (dBm) |
| Frequency (MHz)                         |            |         |           | 1851.5      | 1880           | 1908.5       |                     |
| 3                                       | QPSK       | 1       | 0         | 23.63       | 23.68          | 23.69        | 24.5                |
| 3                                       | QPSK       | 1       | 8         | 23.53       | 23.57          | 23.64        |                     |
| 3                                       | QPSK       | 1       | 14        | 23.46       | 23.61          | 23.68        |                     |
| 3                                       | QPSK       | 8       | 0         | 22.74       | 22.67          | 22.64        | 23.5                |
| 3                                       | QPSK       | 8       | 4         | 22.65       | 22.56          | 22.63        |                     |
| 3                                       | QPSK       | 8       | 7         | 22.54       | 22.51          | 22.58        |                     |
| 3                                       | QPSK       | 15      | 0         | 22.52       | 22.51          | 22.52        | 23.5                |
| 3                                       | 16QAM      | 1       | 0         | 22.32       | 22.36          | 22.37        |                     |
| 3                                       | 16QAM      | 1       | 8         | 22.16       | 22.10          | 22.12        |                     |
| 3                                       | 16QAM      | 1       | 14        | 22.41       | 22.46          | 22.52        | 22.5                |
| 3                                       | 16QAM      | 8       | 0         | 21.66       | 21.66          | 21.60        |                     |
| 3                                       | 16QAM      | 8       | 4         | 21.55       | 21.50          | 21.58        |                     |
| 3                                       | 16QAM      | 8       | 7         | 21.59       | 21.53          | 21.66        | 22.5                |
| 3                                       | 16QAM      | 15      | 0         | 21.51       | 21.45          | 21.47        |                     |
| Channel                                 |            |         |           | 18607       | 18900          | 19193        | Tune-up limit (dBm) |
| Frequency (MHz)                         |            |         |           | 1850.7      | 1880           | 1909.3       |                     |
| 1.4                                     | QPSK       | 1       | 0         | 23.56       | 23.66          | 23.70        | 24.5                |
| 1.4                                     | QPSK       | 1       | 3         | 23.56       | 23.54          | 23.58        |                     |
| 1.4                                     | QPSK       | 1       | 5         | 23.48       | 23.60          | 23.64        |                     |
| 1.4                                     | QPSK       | 3       | 0         | 23.47       | 23.53          | 23.46        | 23.5                |
| 1.4                                     | QPSK       | 3       | 1         | 23.46       | 23.36          | 23.41        |                     |
| 1.4                                     | QPSK       | 3       | 3         | 23.33       | 23.36          | 23.32        |                     |
| 1.4                                     | QPSK       | 6       | 0         | 22.46       | 22.46          | 22.53        | 23.5                |
| 1.4                                     | 16QAM      | 1       | 0         | 22.31       | 22.33          | 22.29        |                     |
| 1.4                                     | 16QAM      | 1       | 3         | 22.12       | 22.13          | 22.16        |                     |
| 1.4                                     | 16QAM      | 1       | 5         | 22.38       | 22.41          | 22.44        | 23.5                |
| 1.4                                     | 16QAM      | 3       | 0         | 22.45       | 22.43          | 22.41        |                     |
| 1.4                                     | 16QAM      | 3       | 1         | 22.30       | 22.31          | 22.35        |                     |
| 1.4                                     | 16QAM      | 3       | 3         | 22.39       | 22.34          | 22.46        | 22.5                |
| 1.4                                     | 16QAM      | 6       | 0         | 21.48       | 21.43          | 21.45        |                     |

| Band 4 (AWS Band) (dBm)<br>Part 27L (only on channel required) |            |         |           |             |                |              |                     |
|----------------------------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                                       | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                                        |            |         |           | 20050       | 20175          | 20300        |                     |
| Frequency (MHz)                                                |            |         |           | 1720        | 1732.5         | 1745         |                     |
| 20                                                             | QPSK       | 1       | 0         | 23.51       | 23.54          | 23.52        | 24.5                |
| 20                                                             | QPSK       | 1       | 49        | 23.40       | 23.50          | 23.52        |                     |
| 20                                                             | QPSK       | 1       | 99        | 23.51       | 23.52          | 23.50        |                     |
| 20                                                             | QPSK       | 50      | 0         | 22.61       | 22.71          | 22.67        | 23.5                |
| 20                                                             | QPSK       | 50      | 24        | 22.57       | 22.62          | 22.54        |                     |
| 20                                                             | QPSK       | 50      | 50        | 22.62       | 22.55          | 22.68        |                     |
| 20                                                             | QPSK       | 100     | 0         | 22.46       | 22.52          | 22.48        | 23.5                |
| 20                                                             | 16QAM      | 1       | 0         | 22.32       | 22.29          | 22.57        |                     |
| 20                                                             | 16QAM      | 1       | 49        | 22.15       | 22.12          | 22.41        |                     |
| 20                                                             | 16QAM      | 1       | 99        | 22.36       | 22.47          | 22.29        | 22.5                |
| 20                                                             | 16QAM      | 50      | 0         | 21.45       | 21.67          | 21.70        |                     |
| 20                                                             | 16QAM      | 50      | 24        | 21.30       | 21.51          | 21.54        |                     |
| 20                                                             | 16QAM      | 50      | 50        | 21.46       | 21.62          | 21.65        | 22.5                |
| 20                                                             | 16QAM      | 100     | 0         | 21.28       | 21.44          | 21.50        |                     |
| Channel                                                        |            |         |           | 20025       | 20175          | 20325        | Tune-up limit (dBm) |
| Frequency (MHz)                                                |            |         |           | 1717.5      | 1732.5         | 1747.5       |                     |
| 15                                                             | QPSK       | 1       | 0         | 23.49       | 23.52          | 23.48        | 24.5                |
| 15                                                             | QPSK       | 1       | 37        | 23.28       | 23.47          | 23.49        |                     |
| 15                                                             | QPSK       | 1       | 74        | 23.40       | 23.53          | 23.50        |                     |
| 15                                                             | QPSK       | 36      | 0         | 22.58       | 22.50          | 22.69        | 23.5                |
| 15                                                             | QPSK       | 36      | 20        | 22.42       | 22.60          | 22.45        |                     |
| 15                                                             | QPSK       | 36      | 39        | 22.57       | 22.43          | 22.59        |                     |
| 15                                                             | QPSK       | 75      | 0         | 22.39       | 22.44          | 22.44        | 23.5                |
| 15                                                             | 16QAM      | 1       | 0         | 22.16       | 22.11          | 22.39        |                     |
| 15                                                             | 16QAM      | 1       | 37        | 22.00       | 21.94          | 22.25        |                     |
| 15                                                             | 16QAM      | 1       | 74        | 22.18       | 22.29          | 22.14        | 22.5                |
| 15                                                             | 16QAM      | 36      | 0         | 21.28       | 21.51          | 21.52        |                     |
| 15                                                             | 16QAM      | 36      | 20        | 21.14       | 21.36          | 21.39        |                     |
| 15                                                             | 16QAM      | 36      | 39        | 21.28       | 21.46          | 21.50        | 22.5                |
| 15                                                             | 16QAM      | 75      | 0         | 21.11       | 21.26          | 21.32        |                     |
| Channel                                                        |            |         |           | 20000       | 20175          | 20350        | Tune-up limit (dBm) |
| Frequency (MHz)                                                |            |         |           | 1715        | 1732.5         | 1750         |                     |
| 10                                                             | QPSK       | 1       | 0         | 23.37       | 23.48          | 23.50        | 24.5                |
| 10                                                             | QPSK       | 1       | 25        | 23.35       | 23.51          | 23.44        |                     |
| 10                                                             | QPSK       | 1       | 49        | 23.50       | 23.51          | 23.53        |                     |
| 10                                                             | QPSK       | 25      | 0         | 22.48       | 22.49          | 22.63        | 23.5                |
| 10                                                             | QPSK       | 25      | 12        | 22.48       | 22.49          | 22.47        |                     |
| 10                                                             | QPSK       | 25      | 25        | 22.46       | 22.46          | 22.65        |                     |
| 10                                                             | QPSK       | 50      | 0         | 22.44       | 22.36          | 22.48        | 23.5                |
| 10                                                             | 16QAM      | 1       | 0         | 22.14       | 22.11          | 22.40        |                     |
| 10                                                             | 16QAM      | 1       | 25        | 21.98       | 21.94          | 22.24        |                     |
| 10                                                             | 16QAM      | 1       | 49        | 22.19       | 22.29          | 22.14        | 22.5                |
| 10                                                             | 16QAM      | 25      | 0         | 21.29       | 21.52          | 21.52        |                     |
| 10                                                             | 16QAM      | 25      | 12        | 21.13       | 21.34          | 21.37        |                     |
| 10                                                             | 16QAM      | 25      | 25        | 21.31       | 21.47          | 21.47        | 22.5                |
| 10                                                             | 16QAM      | 50      | 0         | 21.12       | 21.26          | 21.34        |                     |
| Channel                                                        |            |         |           | 19975       | 20175          | 20375        | Tune-up limit (dBm) |
| Frequency (MHz)                                                |            |         |           | 1712.5      | 1732.5         | 1752.5       |                     |
| 5                                                              | QPSK       | 1       | 0         | 23.35       | 23.50          | 23.52        | 24.5                |
| 5                                                              | QPSK       | 1       | 12        | 23.29       | 23.44          | 23.50        |                     |
| 5                                                              | QPSK       | 1       | 24        | 23.39       | 23.50          | 23.52        |                     |
| 5                                                              | QPSK       | 12      | 0         | 22.66       | 22.71          | 22.63        | 23.5                |
| 5                                                              | QPSK       | 12      | 7         | 22.47       | 22.56          | 22.39        |                     |
| 5                                                              | QPSK       | 12      | 13        | 22.60       | 22.51          | 22.58        |                     |
| 5                                                              | QPSK       | 25      | 0         | 22.43       | 22.34          | 22.44        | 23.5                |
| 5                                                              | 16QAM      | 1       | 0         | 22.16       | 22.11          | 22.42        |                     |
| 5                                                              | 16QAM      | 1       | 12        | 21.98       | 21.95          | 22.24        |                     |
| 5                                                              | 16QAM      | 1       | 24        | 22.18       | 22.31          | 22.13        | 22.5                |
| 5                                                              | 16QAM      | 12      | 0         | 21.30       | 21.51          | 21.53        |                     |
| 5                                                              | 16QAM      | 12      | 7         | 21.12       | 21.34          | 21.38        |                     |
| 5                                                              | 16QAM      | 12      | 13        | 21.28       | 21.47          | 21.50        | 22.5                |
| 5                                                              | 16QAM      | 25      | 0         | 21.10       | 21.26          | 21.33        |                     |
| Channel                                                        |            |         |           | 19965       | 20175          | 20385        | Tune-up limit (dBm) |
| Frequency (MHz)                                                |            |         |           | 1711.5      | 1732.5         | 1753.5       |                     |
| 3                                                              | QPSK       | 1       | 0         | 23.48       | 23.51          | 23.54        | 24.5                |
| 3                                                              | QPSK       | 1       | 8         | 23.23       | 23.52          | 23.45        |                     |
| 3                                                              | QPSK       | 1       | 14        | 23.48       | 23.48          | 23.53        |                     |
| 3                                                              | QPSK       | 8       | 0         | 22.46       | 22.49          | 22.67        | 23.5                |
| 3                                                              | QPSK       | 8       | 4         | 22.44       | 22.60          | 22.41        |                     |
| 3                                                              | QPSK       | 8       | 7         | 22.59       | 22.53          | 22.51        |                     |
| 3                                                              | QPSK       | 15      | 0         | 22.35       | 22.31          | 22.42        | 23.5                |
| 3                                                              | 16QAM      | 1       | 0         | 22.17       | 22.14          | 22.39        |                     |
| 3                                                              | 16QAM      | 1       | 8         | 21.99       | 21.94          | 22.24        |                     |
| 3                                                              | 16QAM      | 1       | 14        | 22.20       | 22.30          | 22.11        | 22.5                |
| 3                                                              | 16QAM      | 8       | 0         | 21.28       | 21.49          | 21.52        |                     |
| 3                                                              | 16QAM      | 8       | 4         | 21.14       | 21.35          | 21.38        |                     |
| 3                                                              | 16QAM      | 8       | 7         | 21.28       | 21.47          | 21.47        | 22.5                |
| 3                                                              | 16QAM      | 15      | 0         | 21.11       | 21.27          | 21.35        |                     |
| Channel                                                        |            |         |           | 19957       | 20175          | 20393        | Tune-up limit (dBm) |
| Frequency (MHz)                                                |            |         |           | 1710.7      | 1732.5         | 1754.3       |                     |
| 1.4                                                            | QPSK       | 1       | 0         | 23.42       | 23.52          | 23.52        | 24.5                |
| 1.4                                                            | QPSK       | 1       | 3         | 23.33       | 23.49          | 23.50        |                     |
| 1.4                                                            | QPSK       | 1       | 5         | 23.31       | 23.43          | 23.39        |                     |
| 1.4                                                            | QPSK       | 3       | 0         | 23.34       | 23.33          | 23.33        |                     |
| 1.4                                                            | QPSK       | 3       | 1         | 23.23       | 23.38          | 23.20        |                     |
| 1.4                                                            | QPSK       | 3       | 3         | 23.34       | 23.33          | 23.39        | 23.5                |
| 1.4                                                            | QPSK       | 6       | 0         | 22.35       | 22.36          | 22.35        |                     |
| 1.4                                                            | 16QAM      | 1       | 0         | 22.16       | 22.14          | 22.40        |                     |
| 1.4                                                            | 16QAM      | 1       | 3         | 21.99       | 21.96          | 22.26        |                     |
| 1.4                                                            | 16QAM      | 1       | 5         | 22.18       | 22.30          | 22.11        |                     |
| 1.4                                                            | 16QAM      | 3       | 0         | 22.27       | 22.32          | 22.34        | 23.5                |
| 1.4                                                            | 16QAM      | 3       | 1         | 22.22       | 22.25          | 22.28        |                     |
| 1.4                                                            | 16QAM      | 3       | 3         | 22.21       | 22.25          | 22.29        |                     |
| 1.4                                                            | 16QAM      | 6       | 0         | 21.11       | 21.28          | 21.34        | 22.5                |

| Band 5 (Celluar Band) (dBm)<br>Part 22H(only on channel required) |            |         |           |             |                |              |                     |
|-------------------------------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                                          | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                                           |            |         |           | 20450       | 20525          | 20600        |                     |
| Frequency (MHz)                                                   |            |         |           | 829         | 836.5          | 844          |                     |
| 10                                                                | QPSK       | 1       | 0         | 23.23       | 23.27          | 23.15        | 24.5                |
| 10                                                                | QPSK       | 1       | 25        | 23.12       | 23.11          | 22.99        |                     |
| 10                                                                | QPSK       | 1       | 49        | 22.89       | 22.85          | 22.94        |                     |
| 10                                                                | QPSK       | 25      | 0         | 22.13       | 22.17          | 22.06        | 23.5                |
| 10                                                                | QPSK       | 25      | 12        | 22.11       | 22.04          | 22.00        |                     |
| 10                                                                | QPSK       | 25      | 25        | 22.03       | 22.06          | 21.91        |                     |
| 10                                                                | QPSK       | 50      | 0         | 22.05       | 22.10          | 22.14        | 23.5                |
| 10                                                                | 16QAM      | 1       | 0         | 21.91       | 21.87          | 21.98        |                     |
| 10                                                                | 16QAM      | 1       | 25        | 21.76       | 21.69          | 21.82        |                     |
| 10                                                                | 16QAM      | 1       | 49        | 21.97       | 21.84          | 21.96        | 22.5                |
| 10                                                                | 16QAM      | 25      | 0         | 21.11       | 21.19          | 21.13        |                     |
| 10                                                                | 16QAM      | 25      | 12        | 20.96       | 21.03          | 20.97        |                     |
| 10                                                                | 16QAM      | 25      | 25        | 20.99       | 21.11          | 21.07        | 22.5                |
| 10                                                                | 16QAM      | 50      | 0         | 20.83       | 20.95          | 20.90        |                     |
| Channel                                                           |            |         |           | 20425       | 20525          | 20625        | Tune-up limit (dBm) |
| Frequency (MHz)                                                   |            |         |           | 826.5       | 836.5          | 846.5        |                     |
| 5                                                                 | QPSK       | 1       | 0         | 23.20       | 23.16          | 22.99        | 24.5                |
| 5                                                                 | QPSK       | 1       | 12        | 23.04       | 22.99          | 22.77        |                     |
| 5                                                                 | QPSK       | 1       | 24        | 22.77       | 22.82          | 22.71        |                     |
| 5                                                                 | QPSK       | 12      | 0         | 22.09       | 22.00          | 21.83        | 23.5                |
| 5                                                                 | QPSK       | 12      | 7         | 21.99       | 22.00          | 21.88        |                     |
| 5                                                                 | QPSK       | 12      | 13        | 21.85       | 22.03          | 21.79        |                     |
| 5                                                                 | QPSK       | 25      | 0         | 21.99       | 22.07          | 22.02        | 23.5                |
| 5                                                                 | 16QAM      | 1       | 0         | 21.73       | 21.70          | 21.73        |                     |
| 5                                                                 | 16QAM      | 1       | 12        | 21.60       | 21.53          | 21.54        |                     |
| 5                                                                 | 16QAM      | 1       | 24        | 21.81       | 21.69          | 21.68        | 22.5                |
| 5                                                                 | 16QAM      | 12      | 0         | 20.95       | 21.04          | 20.86        |                     |
| 5                                                                 | 16QAM      | 12      | 7         | 20.79       | 20.88          | 20.70        |                     |
| 5                                                                 | 16QAM      | 12      | 13        | 20.84       | 20.93          | 20.81        | 22.5                |
| 5                                                                 | 16QAM      | 25      | 0         | 20.65       | 20.80          | 20.65        |                     |
| Channel                                                           |            |         |           | 20415       | 20525          | 20635        | Tune-up limit (dBm) |
| Frequency (MHz)                                                   |            |         |           | 825.5       | 836.5          | 847.5        |                     |
| 3                                                                 | QPSK       | 1       | 0         | 23.22       | 23.19          | 22.93        | 24.5                |
| 3                                                                 | QPSK       | 1       | 8         | 22.94       | 23.01          | 22.87        |                     |
| 3                                                                 | QPSK       | 1       | 14        | 22.84       | 22.78          | 22.76        |                     |
| 3                                                                 | QPSK       | 8       | 0         | 21.95       | 22.06          | 21.93        | 23.5                |
| 3                                                                 | QPSK       | 8       | 4         | 22.02       | 21.91          | 21.76        |                     |
| 3                                                                 | QPSK       | 8       | 7         | 21.86       | 21.93          | 21.68        |                     |
| 3                                                                 | QPSK       | 15      | 0         | 21.92       | 21.94          | 22.00        | 23.5                |
| 3                                                                 | 16QAM      | 1       | 0         | 21.75       | 21.70          | 21.72        |                     |
| 3                                                                 | 16QAM      | 1       | 8         | 21.60       | 21.51          | 21.55        |                     |
| 3                                                                 | 16QAM      | 1       | 14        | 21.80       | 21.68          | 21.68        | 22.5                |
| 3                                                                 | 16QAM      | 8       | 0         | 20.94       | 21.02          | 20.85        |                     |
| 3                                                                 | 16QAM      | 8       | 4         | 20.81       | 20.86          | 20.71        |                     |
| 3                                                                 | 16QAM      | 8       | 7         | 20.84       | 20.93          | 20.81        | 22.5                |
| 3                                                                 | 16QAM      | 15      | 0         | 20.66       | 20.77          | 20.64        |                     |
| Channel                                                           |            |         |           | 20407       | 20525          | 20643        | Tune-up limit (dBm) |
| Frequency (MHz)                                                   |            |         |           | 824.7       | 836.5          | 848.3        |                     |
| 1.4                                                               | QPSK       | 1       | 0         | 23.11       | 23.07          | 22.94        | 24.5                |
| 1.4                                                               | QPSK       | 1       | 3         | 23.02       | 23.00          | 22.83        |                     |
| 1.4                                                               | QPSK       | 1       | 5         | 22.76       | 22.83          | 22.66        |                     |
| 1.4                                                               | QPSK       | 3       | 0         | 22.54       | 22.50          | 22.59        | 23.5                |
| 1.4                                                               | QPSK       | 3       | 1         | 22.51       | 22.51          | 22.58        |                     |
| 1.4                                                               | QPSK       | 3       | 3         | 22.50       | 22.51          | 22.54        |                     |
| 1.4                                                               | QPSK       | 6       | 0         | 21.90       | 21.94          | 21.86        | 23.5                |
| 1.4                                                               | 16QAM      | 1       | 0         | 21.76       | 21.71          | 21.71        |                     |
| 1.4                                                               | 16QAM      | 1       | 3         | 21.61       | 21.53          | 21.56        |                     |
| 1.4                                                               | 16QAM      | 1       | 5         | 21.81       | 21.69          | 21.71        | 23.5                |
| 1.4                                                               | 16QAM      | 3       | 0         | 21.53       | 21.64          | 21.55        |                     |
| 1.4                                                               | 16QAM      | 3       | 1         | 21.51       | 21.57          | 21.51        |                     |
| 1.4                                                               | 16QAM      | 3       | 3         | 21.54       | 21.53          | 21.52        | 22.5                |
| 1.4                                                               | 16QAM      | 6       | 0         | 20.68       | 20.78          | 20.65        |                     |

| Band 7 (2600MHz Band) (dBm)<br>Part 27 |            |         |           |             |                |              |                     |
|----------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                               | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                |            |         |           | 20850       | 21100          | 21350        |                     |
| Frequency (MHz)                        |            |         |           | 2510        | 2535           | 2560         |                     |
| 20                                     | QPSK       | 1       | 0         | 23.51       | 23.66          | 23.55        | 24.5                |
| 20                                     | QPSK       | 1       | 49        | 23.45       | 23.38          | 23.50        |                     |
| 20                                     | QPSK       | 1       | 99        | 23.56       | 23.30          | 23.52        |                     |
| 20                                     | QPSK       | 50      | 0         | 22.58       | 22.61          | 22.54        | 23.5                |
| 20                                     | QPSK       | 50      | 24        | 22.45       | 22.42          | 22.52        |                     |
| 20                                     | QPSK       | 50      | 50        | 22.60       | 22.48          | 22.60        |                     |
| 20                                     | QPSK       | 100     | 0         | 22.54       | 22.56          | 22.55        | 23.5                |
| 20                                     | 16QAM      | 1       | 0         | 22.51       | 22.32          | 22.58        |                     |
| 20                                     | 16QAM      | 1       | 49        | 22.35       | 22.27          | 22.43        |                     |
| 20                                     | 16QAM      | 1       | 99        | 22.74       | 22.68          | 22.34        | 22.5                |
| 20                                     | 16QAM      | 50      | 0         | 21.37       | 21.43          | 21.47        |                     |
| 20                                     | 16QAM      | 50      | 24        | 21.21       | 21.25          | 21.32        |                     |
| 20                                     | 16QAM      | 50      | 50        | 21.38       | 21.43          | 21.52        | 22.5                |
| 20                                     | 16QAM      | 100     | 0         | 21.21       | 21.28          | 21.34        |                     |
| Channel                                |            |         |           | 20825       | 21100          | 21375        | Tune-up limit (dBm) |
| Frequency (MHz)                        |            |         |           | 2507.5      | 2535           | 2562.5       |                     |
| 15                                     | QPSK       | 1       | 0         | 23.40       | 23.48          | 23.57        | 24.5                |
| 15                                     | QPSK       | 1       | 37        | 23.35       | 23.25          | 23.39        |                     |
| 15                                     | QPSK       | 1       | 74        | 23.39       | 23.17          | 23.42        |                     |
| 15                                     | QPSK       | 36      | 0         | 22.41       | 22.51          | 22.52        | 23.5                |
| 15                                     | QPSK       | 36      | 20        | 22.27       | 22.36          | 22.47        |                     |
| 15                                     | QPSK       | 36      | 39        | 22.58       | 22.32          | 22.43        |                     |
| 15                                     | QPSK       | 75      | 0         | 22.52       | 22.33          | 22.38        | 23.5                |
| 15                                     | 16QAM      | 1       | 0         | 22.35       | 22.14          | 22.41        |                     |
| 15                                     | 16QAM      | 1       | 37        | 22.19       | 22.11          | 22.27        |                     |
| 15                                     | 16QAM      | 1       | 74        | 22.57       | 22.52          | 22.16        | 22.5                |
| 15                                     | 16QAM      | 36      | 0         | 21.21       | 21.26          | 21.29        |                     |
| 15                                     | 16QAM      | 36      | 20        | 21.03       | 21.07          | 21.17        |                     |
| 15                                     | 16QAM      | 36      | 39        | 21.22       | 21.25          | 21.37        | 22.5                |
| 15                                     | 16QAM      | 75      | 0         | 21.05       | 21.10          | 21.16        |                     |
| Channel                                |            |         |           | 20800       | 21100          | 21400        | Tune-up limit (dBm) |
| Frequency (MHz)                        |            |         |           | 2505        | 2535           | 2565         |                     |
| 10                                     | QPSK       | 1       | 0         | 23.43       | 23.49          | 23.48        | 24.5                |
| 10                                     | QPSK       | 1       | 25        | 23.43       | 23.32          | 23.42        |                     |
| 10                                     | QPSK       | 1       | 49        | 23.51       | 23.20          | 23.35        |                     |
| 10                                     | QPSK       | 25      | 0         | 22.33       | 22.37          | 22.38        | 23.5                |
| 10                                     | QPSK       | 25      | 12        | 22.13       | 22.24          | 22.42        |                     |
| 10                                     | QPSK       | 25      | 25        | 22.45       | 22.44          | 22.43        |                     |
| 10                                     | QPSK       | 50      | 0         | 22.46       | 22.21          | 22.41        | 23.5                |
| 10                                     | 16QAM      | 1       | 0         | 22.33       | 22.17          | 22.40        |                     |
| 10                                     | 16QAM      | 1       | 25        | 22.18       | 22.11          | 22.26        |                     |
| 10                                     | 16QAM      | 1       | 49        | 22.57       | 22.51          | 22.19        | 22.5                |
| 10                                     | 16QAM      | 25      | 0         | 21.20       | 21.27          | 21.32        |                     |
| 10                                     | 16QAM      | 25      | 12        | 21.03       | 21.09          | 21.15        |                     |
| 10                                     | 16QAM      | 25      | 25        | 21.23       | 21.28          | 21.35        | 22.5                |
| 10                                     | 16QAM      | 50      | 0         | 21.04       | 21.13          | 21.18        |                     |
| Channel                                |            |         |           | 20775       | 21100          | 21425        | Tune-up limit (dBm) |
| Frequency (MHz)                        |            |         |           | 2502.5      | 2535           | 2567.5       |                     |
| 5                                      | QPSK       | 1       | 0         | 23.40       | 23.47          | 23.48        | 24.5                |
| 5                                      | QPSK       | 1       | 12        | 23.42       | 23.25          | 23.43        |                     |
| 5                                      | QPSK       | 1       | 24        | 23.44       | 23.27          | 23.40        |                     |
| 5                                      | QPSK       | 12      | 0         | 22.37       | 22.38          | 22.50        | 23.5                |
| 5                                      | QPSK       | 12      | 7         | 22.07       | 22.29          | 22.48        |                     |
| 5                                      | QPSK       | 12      | 13        | 22.43       | 22.39          | 22.55        |                     |
| 5                                      | QPSK       | 25      | 0         | 22.48       | 22.34          | 22.51        | 23.5                |
| 5                                      | 16QAM      | 1       | 0         | 22.36       | 22.16          | 22.41        |                     |
| 5                                      | 16QAM      | 1       | 12        | 22.20       | 22.10          | 22.26        |                     |
| 5                                      | 16QAM      | 1       | 24        | 22.58       | 22.51          | 22.19        | 22.5                |
| 5                                      | 16QAM      | 12      | 0         | 21.22       | 21.28          | 21.30        |                     |
| 5                                      | 16QAM      | 12      | 7         | 21.03       | 21.10          | 21.14        |                     |
| 5                                      | 16QAM      | 12      | 13        | 21.21       | 21.25          | 21.36        | 22.5                |
| 5                                      | 16QAM      | 25      | 0         | 21.06       | 21.10          | 21.19        |                     |

| Band 12 (700MHz Low Band) (dBm)<br>Part 27F(only on channel required) |            |         |           |             |                |              |                     |
|-----------------------------------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                                              | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                                               |            |         |           | 23060       | 23095          | 23130        | 24.5                |
| Frequency (MHz)                                                       |            |         |           | 704         | 707.5          | 711          |                     |
| 10                                                                    | QPSK       | 1       | 0         | 23.03       | 23.23          | 23.07        | 24.5                |
| 10                                                                    | QPSK       | 1       | 25        | 22.92       | 23.15          | 22.98        |                     |
| 10                                                                    | QPSK       | 1       | 49        | 22.84       | 23.06          | 23.22        |                     |
| 10                                                                    | QPSK       | 25      | 0         | 22.12       | 22.33          | 22.19        |                     |
| 10                                                                    | QPSK       | 25      | 12        | 22.10       | 22.16          | 22.11        | 23.5                |
| 10                                                                    | QPSK       | 25      | 25        | 22.06       | 22.23          | 22.15        |                     |
| 10                                                                    | QPSK       | 50      | 0         | 22.28       | 22.41          | 22.19        |                     |
| 10                                                                    | 16QAM      | 1       | 0         | 22.01       | 22.06          | 21.83        |                     |
| 10                                                                    | 16QAM      | 1       | 25        | 21.85       | 21.89          | 21.65        | 23.5                |
| 10                                                                    | 16QAM      | 1       | 49        | 22.07       | 22.15          | 22.08        |                     |
| 10                                                                    | 16QAM      | 25      | 0         | 21.04       | 21.19          | 21.23        |                     |
| 10                                                                    | 16QAM      | 25      | 12        | 20.89       | 21.04          | 21.06        |                     |
| 10                                                                    | 16QAM      | 25      | 25        | 21.27       | 21.29          | 21.35        | 22.5                |
| 10                                                                    | 16QAM      | 50      | 0         | 21.12       | 21.14          | 21.17        |                     |
| Channel                                                               |            |         |           | 23035       | 23095          | 23155        | 24.5                |
| Frequency (MHz)                                                       |            |         |           | 701.5       | 707.5          | 713.5        |                     |
| 5                                                                     | QPSK       | 1       | 0         | 22.96       | 23.20          | 23.04        | 24.5                |
| 5                                                                     | QPSK       | 1       | 12        | 22.81       | 22.97          | 22.87        |                     |
| 5                                                                     | QPSK       | 1       | 24        | 22.79       | 22.96          | 23.16        |                     |
| 5                                                                     | QPSK       | 12      | 0         | 22.00       | 22.06          | 22.27        |                     |
| 5                                                                     | QPSK       | 12      | 7         | 22.03       | 22.00          | 22.04        | 23.5                |
| 5                                                                     | QPSK       | 12      | 13        | 21.89       | 22.13          | 22.03        |                     |
| 5                                                                     | QPSK       | 25      | 0         | 22.22       | 22.05          | 22.30        |                     |
| 5                                                                     | 16QAM      | 1       | 0         | 21.86       | 21.89          | 21.66        |                     |
| 5                                                                     | 16QAM      | 1       | 12        | 21.70       | 21.74          | 21.55        | 23.5                |
| 5                                                                     | 16QAM      | 1       | 24        | 21.91       | 21.99          | 21.90        |                     |
| 5                                                                     | 16QAM      | 12      | 0         | 20.88       | 21.01          | 21.05        |                     |
| 5                                                                     | 16QAM      | 12      | 7         | 20.74       | 20.89          | 20.90        |                     |
| 5                                                                     | 16QAM      | 12      | 13        | 21.10       | 21.11          | 21.17        | 22.5                |
| 5                                                                     | 16QAM      | 25      | 0         | 20.94       | 20.99          | 20.99        |                     |
| Channel                                                               |            |         |           | 23025       | 23095          | 23165        | 24.5                |
| Frequency (MHz)                                                       |            |         |           | 700.5       | 707.5          | 714.5        |                     |
| 3                                                                     | QPSK       | 1       | 0         | 22.88       | 23.19          | 23.01        | 24.5                |
| 3                                                                     | QPSK       | 1       | 8         | 22.87       | 23.01          | 22.83        |                     |
| 3                                                                     | QPSK       | 1       | 14        | 22.82       | 23.04          | 23.17        |                     |
| 3                                                                     | QPSK       | 8       | 0         | 22.04       | 22.15          | 22.17        |                     |
| 3                                                                     | QPSK       | 8       | 4         | 22.03       | 22.05          | 22.05        | 23.5                |
| 3                                                                     | QPSK       | 8       | 7         | 21.90       | 22.18          | 22.11        |                     |
| 3                                                                     | QPSK       | 15      | 0         | 22.10       | 22.05          | 22.34        |                     |
| 3                                                                     | 16QAM      | 1       | 0         | 21.83       | 21.89          | 21.65        |                     |
| 3                                                                     | 16QAM      | 1       | 8         | 21.70       | 21.74          | 21.50        | 23.5                |
| 3                                                                     | 16QAM      | 1       | 14        | 21.90       | 21.97          | 21.93        |                     |
| 3                                                                     | 16QAM      | 8       | 0         | 20.87       | 21.03          | 21.05        |                     |
| 3                                                                     | 16QAM      | 8       | 4         | 20.74       | 20.89          | 20.88        |                     |
| 3                                                                     | 16QAM      | 8       | 7         | 21.11       | 21.11          | 21.20        | 22.5                |
| 3                                                                     | 16QAM      | 15      | 0         | 20.96       | 20.96          | 21.00        |                     |
| Channel                                                               |            |         |           | 23017       | 23095          | 23173        | 24.5                |
| Frequency (MHz)                                                       |            |         |           | 699.7       | 707.5          | 715.3        |                     |
| 1.4                                                                   | QPSK       | 1       | 0         | 22.87       | 23.07          | 22.91        | 24.5                |
| 1.4                                                                   | QPSK       | 1       | 3         | 22.75       | 22.91          | 22.93        |                     |
| 1.4                                                                   | QPSK       | 1       | 5         | 22.66       | 22.88          | 22.89        |                     |
| 1.4                                                                   | QPSK       | 3       | 0         | 22.53       | 22.61          | 22.55        |                     |
| 1.4                                                                   | QPSK       | 3       | 1         | 22.52       | 22.58          | 22.51        | 23.5                |
| 1.4                                                                   | QPSK       | 3       | 3         | 22.50       | 22.55          | 22.59        |                     |
| 1.4                                                                   | QPSK       | 6       | 0         | 22.13       | 22.12          | 22.31        |                     |
| 1.4                                                                   | 16QAM      | 1       | 0         | 21.86       | 21.93          | 21.67        |                     |
| 1.4                                                                   | 16QAM      | 1       | 3         | 21.78       | 21.72          | 21.69        | 23.5                |
| 1.4                                                                   | 16QAM      | 1       | 5         | 21.89       | 21.83          | 21.92        |                     |
| 1.4                                                                   | 16QAM      | 3       | 0         | 21.57       | 21.53          | 21.56        |                     |
| 1.4                                                                   | 16QAM      | 3       | 1         | 21.54       | 21.59          | 21.58        |                     |
| 1.4                                                                   | 16QAM      | 3       | 3         | 21.50       | 21.53          | 21.50        | 22.5                |
| 1.4                                                                   | 16QAM      | 6       | 0         | 20.91       | 20.97          | 20.94        |                     |

| Band 17 (700MHz Band) (dBm)<br>Part 27H(only on channel required) |            |         |           |             |                |              |                     |
|-------------------------------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                                          | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                                           |            |         |           | 23780       | 23790          | 23800        | 24.5                |
| Frequency (MHz)                                                   |            |         |           | 709         | 710            | 711          |                     |
| 10                                                                | QPSK       | 1       | 0         | 23.06       | 23.08          | 23.02        | 24.5                |
| 10                                                                | QPSK       | 1       | 25        | 22.91       | 22.94          | 22.99        |                     |
| 10                                                                | QPSK       | 1       | 49        | 22.81       | 22.92          | 22.76        |                     |
| 10                                                                | QPSK       | 25      | 0         | 22.05       | 22.19          | 22.11        |                     |
| 10                                                                | QPSK       | 25      | 12        | 21.96       | 22.02          | 22.02        | 23.5                |
| 10                                                                | QPSK       | 25      | 25        | 22.17       | 22.07          | 22.09        |                     |
| 10                                                                | QPSK       | 50      | 0         | 22.12       | 22.13          | 22.03        |                     |
| 10                                                                | 16QAM      | 1       | 0         | 21.85       | 21.74          | 21.73        |                     |
| 10                                                                | 16QAM      | 1       | 25        | 21.67       | 21.57          | 21.57        | 23.5                |
| 10                                                                | 16QAM      | 1       | 49        | 21.93       | 21.87          | 21.79        |                     |
| 10                                                                | 16QAM      | 25      | 0         | 21.19       | 21.00          | 20.97        |                     |
| 10                                                                | 16QAM      | 25      | 12        | 21.04       | 20.85          | 20.81        |                     |
| 10                                                                | 16QAM      | 25      | 25        | 21.01       | 21.12          | 21.13        | 22.5                |
| 10                                                                | 16QAM      | 50      | 0         | 20.85       | 20.97          | 20.96        |                     |
| Channel                                                           |            |         |           | 23755       | 23790          | 23825        | 24.5                |
| Frequency (MHz)                                                   |            |         |           | 706.5       | 710            | 713.5        |                     |
| 5                                                                 | QPSK       | 1       | 0         | 22.99       | 23.06          | 22.91        | 24.5                |
| 5                                                                 | QPSK       | 1       | 12        | 22.84       | 22.77          | 22.93        |                     |
| 5                                                                 | QPSK       | 1       | 24        | 22.76       | 22.79          | 22.68        |                     |
| 5                                                                 | QPSK       | 12      | 0         | 21.97       | 22.07          | 21.96        |                     |
| 5                                                                 | QPSK       | 12      | 7         | 21.85       | 21.99          | 21.97        | 23.5                |
| 5                                                                 | QPSK       | 12      | 13        | 22.17       | 21.98          | 21.95        |                     |
| 5                                                                 | QPSK       | 25      | 0         | 21.95       | 21.95          | 21.92        |                     |
| 5                                                                 | 16QAM      | 1       | 0         | 21.69       | 21.57          | 21.55        |                     |
| 5                                                                 | 16QAM      | 1       | 12        | 21.59       | 21.50          | 21.52        | 23.5                |
| 5                                                                 | 16QAM      | 1       | 24        | 21.75       | 21.70          | 21.62        |                     |
| 5                                                                 | 16QAM      | 12      | 0         | 21.01       | 20.85          | 20.79        |                     |
| 5                                                                 | 16QAM      | 12      | 7         | 20.89       | 20.69          | 20.64        |                     |
| 5                                                                 | 16QAM      | 12      | 13        | 20.84       | 20.96          | 20.96        | 22.5                |
| 5                                                                 | 16QAM      | 25      | 0         | 20.70       | 20.79          | 20.79        |                     |

| Band 19 (835MHz Band) (dBm) |            |         |           |             |                |              |                     |          |
|-----------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|----------|
| BW (MHz)                    | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) | MPR (dB) |
| Channel                     |            |         |           |             | 24075          |              | 24.5                | 0        |
| Frequency (MHz)             |            |         |           |             | 837.5          |              |                     |          |
| 15                          | QPSK       | 1       | 0         |             | 23.10          |              | 24.5                | 0        |
| 15                          | QPSK       | 1       | 37        |             | 22.93          |              |                     |          |
| 15                          | QPSK       | 1       | 74        |             | 22.89          |              |                     |          |
| 15                          | QPSK       | 36      | 0         |             | 22.21          |              | 23.5                | 1        |
| 15                          | QPSK       | 36      | 20        |             | 21.98          |              |                     |          |
| 15                          | QPSK       | 36      | 39        |             | 22.00          |              |                     |          |
| 15                          | QPSK       | 75      | 0         |             | 22.15          |              | 23.5                | 1        |
| 15                          | 16QAM      | 1       | 0         |             | 21.69          |              |                     |          |
| 15                          | 16QAM      | 1       | 37        |             | 21.52          |              |                     |          |
| 15                          | 16QAM      | 1       | 74        |             | 21.88          |              | 22.5                | 2        |
| 15                          | 16QAM      | 36      | 0         |             | 21.01          |              |                     |          |
| 15                          | 16QAM      | 36      | 20        |             | 20.78          |              |                     |          |
| 15                          | 16QAM      | 36      | 39        |             | 21.08          |              | 20.92               |          |
| 15                          | 16QAM      | 75      | 0         |             | 20.92          |              |                     |          |
| Channel                     |            |         |           | 24050       | 24075          | 24100        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 835         | 837.5          | 840          |                     |          |
| 10                          | QPSK       | 1       | 0         | 23.04       | 22.99          | 22.95        | 24.5                | 0        |
| 10                          | QPSK       | 1       | 25        | 22.81       | 22.91          | 22.95        |                     |          |
| 10                          | QPSK       | 1       | 49        | 22.71       | 22.89          | 22.68        |                     |          |
| 10                          | QPSK       | 25      | 0         | 21.99       | 22.15          | 22.08        | 23.5                | 1        |
| 10                          | QPSK       | 25      | 12        | 21.91       | 21.93          | 22.01        |                     |          |
| 10                          | QPSK       | 25      | 25        | 22.09       | 22.02          | 22.04        |                     |          |
| 10                          | QPSK       | 50      | 0         | 22.05       | 22.08          | 21.93        | 23.5                | 1        |
| 10                          | 16QAM      | 1       | 0         | 21.75       | 21.68          | 21.70        |                     |          |
| 10                          | 16QAM      | 1       | 25        | 21.57       | 21.56          | 21.50        |                     |          |
| 10                          | 16QAM      | 1       | 49        | 21.86       | 21.78          | 21.73        | 22.5                | 2        |
| 10                          | 16QAM      | 25      | 0         | 21.12       | 20.94          | 20.89        |                     |          |
| 10                          | 16QAM      | 25      | 12        | 21.02       | 20.82          | 20.76        |                     |          |
| 10                          | 16QAM      | 25      | 25        | 20.94       | 21.09          | 21.08        | 20.87               |          |
| 10                          | 16QAM      | 50      | 0         | 20.82       | 20.87          | 20.95        |                     |          |
| Channel                     |            |         |           | 24025       | 24075          | 24125        | Tune-up limit (dBm) | MPR (dB) |
| Frequency (MHz)             |            |         |           | 832.5       | 837.5          | 842.5        |                     |          |
| 5                           | QPSK       | 1       | 0         | 23.01       | 23.04          | 22.95        | 0                   | 0        |
| 5                           | QPSK       | 1       | 12        | 22.86       | 22.93          | 22.92        |                     |          |
| 5                           | QPSK       | 1       | 24        | 22.80       | 22.91          | 22.70        |                     |          |
| 5                           | QPSK       | 12      | 0         | 21.98       | 22.15          | 22.01        | -1                  | 1        |
| 5                           | QPSK       | 12      | 7         | 21.86       | 21.94          | 22.01        |                     |          |
| 5                           | QPSK       | 12      | 13        | 22.09       | 22.01          | 22.07        |                     |          |
| 5                           | QPSK       | 25      | 0         | 22.07       | 22.06          | 21.98        | -1                  | 1        |
| 5                           | 16QAM      | 1       | 0         | 21.79       | 21.67          | 21.70        |                     |          |
| 5                           | 16QAM      | 1       | 12        | 21.57       | 21.50          | 21.47        |                     |          |
| 5                           | 16QAM      | 1       | 24        | 21.90       | 21.85          | 21.70        | -2                  | 2        |
| 5                           | 16QAM      | 12      | 0         | 21.14       | 20.90          | 20.95        |                     |          |
| 5                           | 16QAM      | 12      | 7         | 21.00       | 20.75          | 20.80        |                     |          |
| 5                           | 16QAM      | 12      | 13        | 21.00       | 21.05          | 21.12        | 20.83               |          |
| 5                           | 16QAM      | 25      | 0         | 20.83       | 20.92          | 20.89        |                     |          |

| Band 38(only on channel required) (dBm) |            |         |           |             |                |              |                     |
|-----------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                                 |            |         |           | 37850       | 38000          | 38150        |                     |
| Frequency (MHz)                         |            |         |           | 2580        | 2595           | 2610         |                     |
| 20                                      | QPSK       | 1       | 0         | 23.37       | 23.55          | 23.54        | 24.5                |
| 20                                      | QPSK       | 1       | 49        | 23.25       | 23.45          | 23.49        |                     |
| 20                                      | QPSK       | 1       | 99        | 23.44       | 23.47          | 23.46        |                     |
| 20                                      | QPSK       | 50      | 0         | 22.63       | 22.74          | 22.73        | 23.5                |
| 20                                      | QPSK       | 50      | 24        | 22.59       | 22.59          | 22.64        |                     |
| 20                                      | QPSK       | 50      | 50        | 22.66       | 22.74          | 22.58        |                     |
| 20                                      | QPSK       | 100     | 0         | 22.64       | 22.69          | 22.54        | 23.5                |
| 20                                      | 16QAM      | 1       | 0         | 22.18       | 22.36          | 22.38        |                     |
| 20                                      | 16QAM      | 1       | 49        | 22.02       | 22.21          | 22.21        |                     |
| 20                                      | 16QAM      | 1       | 99        | 22.26       | 22.19          | 22.14        | 22.5                |
| 20                                      | 16QAM      | 50      | 0         | 21.66       | 21.65          | 21.47        |                     |
| 20                                      | 16QAM      | 50      | 24        | 21.51       | 21.50          | 21.30        |                     |
| 20                                      | 16QAM      | 50      | 50        | 21.43       | 21.59          | 21.61        | 22.5                |
| 20                                      | 16QAM      | 100     | 0         | 21.27       | 21.42          | 21.43        |                     |
| Channel                                 |            |         |           | 37825       | 38000          | 38175        | Tune-up limit (dBm) |
| Frequency (MHz)                         |            |         |           | 2577.5      | 2595           | 2612.5       |                     |
| 15                                      | QPSK       | 1       | 0         | 23.29       | 23.49          | 23.47        | 24.5                |
| 15                                      | QPSK       | 1       | 37        | 23.13       | 23.37          | 23.44        |                     |
| 15                                      | QPSK       | 1       | 74        | 23.32       | 23.43          | 23.37        |                     |
| 15                                      | QPSK       | 36      | 0         | 22.51       | 22.65          | 22.62        | 23.5                |
| 15                                      | QPSK       | 36      | 20        | 22.53       | 22.51          | 22.46        |                     |
| 15                                      | QPSK       | 36      | 39        | 22.52       | 22.70          | 22.56        |                     |
| 15                                      | QPSK       | 75      | 0         | 22.49       | 22.57          | 22.43        | 23.5                |
| 15                                      | 16QAM      | 1       | 0         | 22.00       | 22.18          | 22.20        |                     |
| 15                                      | 16QAM      | 1       | 37        | 21.84       | 22.05          | 22.04        |                     |
| 15                                      | 16QAM      | 1       | 74        | 22.08       | 22.04          | 21.99        | 22.5                |
| 15                                      | 16QAM      | 36      | 0         | 21.50       | 21.50          | 21.31        |                     |
| 15                                      | 16QAM      | 36      | 20        | 21.33       | 21.33          | 21.15        |                     |
| 15                                      | 16QAM      | 36      | 39        | 21.27       | 21.43          | 21.44        | 22.5                |
| 15                                      | 16QAM      | 75      | 0         | 21.10       | 21.26          | 21.28        |                     |
| Channel                                 |            |         |           | 37800       | 38000          | 38200        | Tune-up limit (dBm) |
| Frequency (MHz)                         |            |         |           | 2575        | 2595           | 2615         |                     |
| 10                                      | QPSK       | 1       | 0         | 23.19       | 23.48          | 23.48        | 24.5                |
| 10                                      | QPSK       | 1       | 25        | 23.12       | 23.41          | 23.40        |                     |
| 10                                      | QPSK       | 1       | 49        | 23.30       | 23.42          | 23.28        |                     |
| 10                                      | QPSK       | 25      | 0         | 22.59       | 22.49          | 22.58        | 23.5                |
| 10                                      | QPSK       | 25      | 12        | 22.46       | 22.55          | 22.46        |                     |
| 10                                      | QPSK       | 25      | 25        | 22.63       | 22.61          | 22.52        |                     |
| 10                                      | QPSK       | 50      | 0         | 22.49       | 22.57          | 22.50        | 23.5                |
| 10                                      | 16QAM      | 1       | 0         | 22.00       | 22.19          | 22.22        |                     |
| 10                                      | 16QAM      | 1       | 25        | 21.85       | 22.05          | 22.04        |                     |
| 10                                      | 16QAM      | 1       | 49        | 22.10       | 22.01          | 21.99        | 22.5                |
| 10                                      | 16QAM      | 25      | 0         | 21.48       | 21.49          | 21.30        |                     |
| 10                                      | 16QAM      | 25      | 12        | 21.35       | 21.34          | 21.14        |                     |
| 10                                      | 16QAM      | 25      | 25        | 21.28       | 21.43          | 21.45        | 22.5                |
| 10                                      | 16QAM      | 50      | 0         | 21.12       | 21.27          | 21.26        |                     |
| Channel                                 |            |         |           | 37775       | 38000          | 38225        | Tune-up limit (dBm) |
| Frequency (MHz)                         |            |         |           | 2572.5      | 2595           | 2617.5       |                     |
| 5                                       | QPSK       | 1       | 0         | 23.34       | 23.49          | 23.48        | 24.5                |
| 5                                       | QPSK       | 1       | 12        | 23.14       | 23.34          | 23.40        |                     |
| 5                                       | QPSK       | 1       | 24        | 23.28       | 23.33          | 23.28        |                     |
| 5                                       | QPSK       | 12      | 0         | 22.60       | 22.62          | 22.63        | 23.5                |
| 5                                       | QPSK       | 12      | 7         | 22.49       | 22.57          | 22.53        |                     |
| 5                                       | QPSK       | 12      | 13        | 22.53       | 22.67          | 22.48        |                     |
| 5                                       | QPSK       | 25      | 0         | 22.51       | 22.60          | 22.46        | 23.5                |
| 5                                       | 16QAM      | 1       | 0         | 22.00       | 22.20          | 22.20        |                     |
| 5                                       | 16QAM      | 1       | 12        | 21.86       | 22.05          | 22.04        |                     |
| 5                                       | 16QAM      | 1       | 24        | 22.08       | 22.04          | 21.97        | 22.5                |
| 5                                       | 16QAM      | 12      | 0         | 21.48       | 21.49          | 21.30        |                     |
| 5                                       | 16QAM      | 12      | 7         | 21.35       | 21.32          | 21.13        |                     |
| 5                                       | 16QAM      | 12      | 13        | 21.27       | 21.43          | 21.43        | 22.5                |
| 5                                       | 16QAM      | 25      | 0         | 21.12       | 21.24          | 21.28        |                     |

| Band 41 (2496~2690MHz) (dBm) |            |         |           |             |                    |                |                     |              |                     |
|------------------------------|------------|---------|-----------|-------------|--------------------|----------------|---------------------|--------------|---------------------|
| BW [MHz]                     | Modulation | RB Size | RB Offset | Low Channel | Middle Low Channel | Middle Channel | Middle High Channel | High Channel | Tune-up limit (dBm) |
| Channel                      |            |         |           | 39790       | 40165              | 40620          | 41055               | 41490        |                     |
| Frequency (MHz)              |            |         |           | 2506        | 2549.5             | 2593           | 2636.5              | 2680         |                     |
| 20                           | QPSK       | 1       | 0         | 23.35       | 23.53              | 23.56          | 23.44               | 23.43        | 24.5                |
| 20                           | QPSK       | 1       | 49        | 23.52       | 23.53              | 23.52          | 23.28               | 23.27        |                     |
| 20                           | QPSK       | 1       | 99        | 23.15       | 23.28              | 23.35          | 23.09               | 23.11        |                     |
| 20                           | QPSK       | 50      | 0         | 22.50       | 22.51              | 22.56          | 22.48               | 22.51        | 23.5                |
| 20                           | QPSK       | 50      | 24        | 22.48       | 22.49              | 22.53          | 22.45               | 22.50        |                     |
| 20                           | QPSK       | 50      | 50        | 22.55       | 22.48              | 22.36          | 22.34               | 22.29        |                     |
| 20                           | QPSK       | 100     | 0         | 22.61       | 22.41              | 22.78          | 22.29               | 22.53        | 23.5                |
| 20                           | 16QAM      | 1       | 0         | 21.72       | 22.02              | 22.01          | 21.98               | 21.78        |                     |
| 20                           | 16QAM      | 1       | 49        | 22.32       | 22.28              | 22.32          | 22.09               | 22.07        |                     |
| 20                           | 16QAM      | 1       | 99        | 21.84       | 21.92              | 22.00          | 21.76               | 21.83        | 22.5                |
| 20                           | 16QAM      | 50      | 0         | 21.35       | 21.40              | 21.09          | 21.35               | 21.29        |                     |
| 20                           | 16QAM      | 50      | 24        | 21.51       | 21.20              | 21.52          | 21.20               | 21.12        |                     |
| 20                           | 16QAM      | 50      | 50        | 21.19       | 21.27              | 21.22          | 21.28               | 21.18        | 22.5                |
| 20                           | 16QAM      | 100     | 0         | 21.27       | 21.33              | 21.14          | 21.20               | 21.22        |                     |
| Channel                      |            |         |           | 39725       | 40173              | 40620          | 41068               | 41515        | Tune-up limit (dBm) |
| Frequency (MHz)              |            |         |           | 2503.5      | 2548.3             | 2593           | 2637.8              | 2682.5       |                     |
| 15                           | QPSK       | 1       | 0         | 23.25       | 23.46              | 23.44          | 23.36               | 23.28        | 24.5                |
| 15                           | QPSK       | 1       | 37        | 23.41       | 23.49              | 23.50          | 23.20               | 23.13        |                     |
| 15                           | QPSK       | 1       | 74        | 22.98       | 23.23              | 23.24          | 23.05               | 23.08        |                     |
| 15                           | QPSK       | 36      | 0         | 22.13       | 22.40              | 22.39          | 22.31               | 22.08        | 23.5                |
| 15                           | QPSK       | 36      | 20        | 22.39       | 22.41              | 22.42          | 22.32               | 22.34        |                     |
| 15                           | QPSK       | 36      | 39        | 22.38       | 22.31              | 22.25          | 22.22               | 22.16        |                     |
| 15                           | QPSK       | 75      | 0         | 22.52       | 22.37              | 22.75          | 22.36               | 22.42        | 23.5                |
| 15                           | 16QAM      | 1       | 0         | 21.77       | 21.87              | 21.85          | 21.82               | 21.72        |                     |
| 15                           | 16QAM      | 1       | 37        | 22.15       | 22.12              | 22.14          | 21.92               | 21.89        |                     |
| 15                           | 16QAM      | 1       | 74        | 21.68       | 21.76              | 21.85          | 21.70               | 21.68        | 22.5                |
| 15                           | 16QAM      | 36      | 0         | 21.17       | 21.23              | 20.91          | 21.18               | 21.13        |                     |
| 15                           | 16QAM      | 36      | 20        | 21.36       | 21.02              | 21.36          | 21.02               | 20.94        |                     |
| 15                           | 16QAM      | 36      | 39        | 21.04       | 21.12              | 21.07          | 21.10               | 21.00        | 22.5                |
| 15                           | 16QAM      | 75      | 0         | 21.12       | 21.15              | 20.96          | 21.05               | 21.07        |                     |
| Channel                      |            |         |           | 39700       | 40160              | 40620          | 41080               | 41540        | Tune-up limit (dBm) |
| Frequency (MHz)              |            |         |           | 2501        | 2547               | 2593           | 2639                | 2685         |                     |
| 10                           | QPSK       | 1       | 0         | 23.29       | 23.49              | 23.51          | 23.30               | 23.27        | 24.5                |
| 10                           | QPSK       | 1       | 25        | 23.39       | 23.52              | 23.34          | 23.15               | 23.13        |                     |
| 10                           | QPSK       | 1       | 49        | 23.13       | 23.11              | 23.22          | 23.06               | 23.03        |                     |
| 10                           | QPSK       | 25      | 0         | 22.20       | 22.41              | 22.35          | 22.25               | 22.13        | 23.5                |
| 10                           | QPSK       | 25      | 12        | 22.30       | 22.32              | 22.37          | 22.28               | 22.42        |                     |
| 10                           | QPSK       | 25      | 25        | 22.42       | 22.32              | 22.24          | 22.17               | 22.24        |                     |
| 10                           | QPSK       | 50      | 0         | 22.54       | 22.35              | 22.65          | 22.18               | 22.48        | 23.5                |
| 10                           | 16QAM      | 1       | 0         | 21.55       | 21.84              | 21.85          | 21.81               | 21.63        |                     |
| 10                           | 16QAM      | 1       | 25        | 22.15       | 22.10              | 22.14          | 21.93               | 21.92        |                     |
| 10                           | 16QAM      | 1       | 49        | 21.67       | 21.75              | 21.83          | 21.59               | 21.65        | 22.5                |
| 10                           | 16QAM      | 25      | 0         | 21.17       | 21.23              | 20.94          | 21.19               | 21.14        |                     |
| 10                           | 16QAM      | 25      | 12        | 21.36       | 21.05              | 21.35          | 21.02               | 20.96        |                     |
| 10                           | 16QAM      | 25      | 25        | 21.03       | 21.11              | 21.07          | 21.10               | 21.00        | 22.5                |
| 10                           | 16QAM      | 50      | 0         | 21.09       | 21.18              | 20.98          | 21.03               | 21.05        |                     |
| Channel                      |            |         |           | 39675       | 40148              | 40620          | 41093               | 41565        | Tune-up limit (dBm) |
| Frequency (MHz)              |            |         |           | 2498.5      | 2545.8             | 2593           | 2640.30             | 2687.5       |                     |
| 5                            | QPSK       | 1       | 0         | 23.20       | 23.42              | 23.39          | 23.36               | 23.33        | 24.5                |
| 5                            | QPSK       | 1       | 12        | 23.36       | 23.38              | 23.34          | 23.21               | 23.22        |                     |
| 5                            | QPSK       | 1       | 24        | 23.05       | 23.18              | 23.19          | 23.10               | 23.07        |                     |
| 5                            | QPSK       | 12      | 0         | 22.05       | 22.45              | 22.39          | 22.30               | 22.19        | 23.5                |
| 5                            | QPSK       | 12      | 7         | 22.44       | 22.33              | 22.40          | 22.40               | 22.47        |                     |
| 5                            | QPSK       | 12      | 13        | 22.46       | 22.39              | 22.26          | 22.21               | 22.24        |                     |
| 5                            | QPSK       | 25      | 0         | 22.54       | 22.39              | 22.61          | 22.23               | 22.46        | 23.5                |
| 5                            | 16QAM      | 1       | 0         | 21.54       | 21.84              | 21.83          | 21.83               | 21.61        |                     |
| 5                            | 16QAM      | 1       | 12        | 22.14       | 22.10              | 22.16          | 21.94               | 21.90        |                     |
| 5                            | 16QAM      | 1       | 24        | 21.69       | 21.74              | 21.85          | 21.61               | 21.68        | 22.5                |
| 5                            | 16QAM      | 12      | 0         | 21.20       | 21.22              | 20.91          | 21.18               | 21.13        |                     |
| 5                            | 16QAM      | 12      | 7         | 21.34       | 21.03              | 21.35          | 21.05               | 20.94        |                     |
| 5                            | 16QAM      | 12      | 13        | 21.01       | 21.10              | 21.07          | 21.10               | 21.03        | 22.5                |
| 5                            | 16QAM      | 25      | 0         | 21.11       | 21.17              | 20.98          | 21.03               | 21.05        |                     |

| Band 66 (dBm)   |            |         |           |             |                |              |                     |
|-----------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel         |            |         |           | 132072      | 132322         | 132572       |                     |
| Frequency (MHz) |            |         |           | 1720        | 1745           | 1770         |                     |
| 20              | QPSK       | 1       | 0         | 23.44       | 23.55          | 23.41        | 24.5                |
| 20              | QPSK       | 1       | 49        | 23.26       | 23.46          | 23.36        |                     |
| 20              | QPSK       | 1       | 99        | 23.16       | 23.31          | 23.49        |                     |
| 20              | QPSK       | 50      | 0         | 22.40       | 22.42          | 22.39        | 23.5                |
| 20              | QPSK       | 50      | 24        | 22.28       | 22.33          | 22.25        |                     |
| 20              | QPSK       | 50      | 50        | 22.35       | 22.34          | 22.38        |                     |
| 20              | QPSK       | 100     | 0         | 22.23       | 22.35          | 22.19        | 23.5                |
| 20              | 16QAM      | 1       | 0         | 22.49       | 22.54          | 22.61        |                     |
| 20              | 16QAM      | 1       | 49        | 22.33       | 22.36          | 22.44        |                     |
| 20              | 16QAM      | 1       | 99        | 22.34       | 22.40          | 22.44        | 22.5                |
| 20              | 16QAM      | 50      | 0         | 21.28       | 21.34          | 21.47        |                     |
| 20              | 16QAM      | 50      | 24        | 21.12       | 21.19          | 21.32        |                     |
| 20              | 16QAM      | 50      | 50        | 21.24       | 21.18          | 21.21        | 22.5                |
| 20              | 16QAM      | 100     | 0         | 21.06       | 21.01          | 21.03        |                     |
| Channel         |            |         |           | 132047      | 132322         | 132597       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5      | 1745           | 1772.5       |                     |
| 15              | QPSK       | 1       | 0         | 23.31       | 23.50          | 23.28        | 24.5                |
| 15              | QPSK       | 1       | 37        | 23.21       | 23.44          | 23.19        |                     |
| 15              | QPSK       | 1       | 74        | 23.03       | 23.23          | 23.43        |                     |
| 15              | QPSK       | 36      | 0         | 22.32       | 22.23          | 22.28        | 23.5                |
| 15              | QPSK       | 36      | 20        | 22.21       | 22.24          | 22.13        |                     |
| 15              | QPSK       | 36      | 39        | 22.32       | 22.30          | 22.29        |                     |
| 15              | QPSK       | 75      | 0         | 22.15       | 22.15          | 22.26        | 23.5                |
| 15              | 16QAM      | 1       | 0         | 22.31       | 22.38          | 22.45        |                     |
| 15              | 16QAM      | 1       | 37        | 22.18       | 22.21          | 22.28        |                     |
| 15              | 16QAM      | 1       | 74        | 22.18       | 22.22          | 22.29        | 22.5                |
| 15              | 16QAM      | 36      | 0         | 21.12       | 21.16          | 21.31        |                     |
| 15              | 16QAM      | 36      | 20        | 20.96       | 21.03          | 21.14        |                     |
| 15              | 16QAM      | 36      | 39        | 21.09       | 21.02          | 21.04        | 22.5                |
| 15              | 16QAM      | 75      | 0         | 20.88       | 20.86          | 20.85        |                     |
| Channel         |            |         |           | 132022      | 132322         | 132622       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715        | 1745           | 1775         |                     |
| 10              | QPSK       | 1       | 0         | 23.37       | 23.51          | 23.35        | 24.5                |
| 10              | QPSK       | 1       | 25        | 23.18       | 23.38          | 23.25        |                     |
| 10              | QPSK       | 1       | 49        | 23.04       | 23.13          | 23.50        |                     |
| 10              | QPSK       | 25      | 0         | 22.36       | 22.25          | 22.36        | 23.5                |
| 10              | QPSK       | 25      | 12        | 22.17       | 22.20          | 22.11        |                     |
| 10              | QPSK       | 25      | 25        | 22.31       | 22.31          | 22.31        |                     |
| 10              | QPSK       | 50      | 0         | 22.05       | 22.04          | 22.32        | 23.5                |
| 10              | 16QAM      | 1       | 0         | 22.31       | 22.36          | 22.46        |                     |
| 10              | 16QAM      | 1       | 25        | 22.15       | 22.19          | 22.28        |                     |
| 10              | 16QAM      | 1       | 49        | 22.19       | 22.23          | 22.27        | 22.5                |
| 10              | 16QAM      | 25      | 0         | 21.12       | 21.16          | 21.31        |                     |
| 10              | 16QAM      | 25      | 12        | 20.97       | 21.04          | 21.16        |                     |
| 10              | 16QAM      | 25      | 25        | 21.09       | 21.02          | 21.06        | 22.5                |
| 10              | 16QAM      | 50      | 0         | 20.90       | 20.83          | 20.88        |                     |
| Channel         |            |         |           | 131997      | 132322         | 132647       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5      | 1745           | 1777.5       |                     |
| 5               | QPSK       | 1       | 0         | 23.41       | 23.44          | 23.32        | 24.5                |
| 5               | QPSK       | 1       | 12        | 23.21       | 23.36          | 23.31        |                     |
| 5               | QPSK       | 1       | 24        | 23.00       | 23.13          | 23.42        |                     |
| 5               | QPSK       | 12      | 0         | 22.37       | 22.21          | 22.24        | 23.5                |
| 5               | QPSK       | 12      | 7         | 22.12       | 22.30          | 22.11        |                     |
| 5               | QPSK       | 12      | 13        | 22.31       | 22.26          | 22.32        |                     |
| 5               | QPSK       | 25      | 0         | 22.08       | 22.12          | 22.27        | 23.5                |
| 5               | 16QAM      | 1       | 0         | 22.33       | 22.36          | 22.45        |                     |
| 5               | 16QAM      | 1       | 12        | 22.16       | 22.19          | 22.29        |                     |
| 5               | 16QAM      | 1       | 24        | 22.16       | 22.23          | 22.26        | 22.5                |
| 5               | 16QAM      | 12      | 0         | 21.11       | 21.17          | 21.31        |                     |
| 5               | 16QAM      | 12      | 7         | 20.97       | 21.01          | 21.15        |                     |
| 5               | 16QAM      | 12      | 13        | 21.07       | 21.01          | 21.06        | 22.5                |
| 5               | 16QAM      | 25      | 0         | 20.88       | 20.85          | 20.88        |                     |
| Channel         |            |         |           | 131987      | 132322         | 132657       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5      | 1745           | 1778.5       |                     |
| 3               | QPSK       | 1       | 0         | 23.34       | 23.37          | 23.37        | 24.5                |
| 3               | QPSK       | 1       | 8         | 23.11       | 23.36          | 23.21        |                     |
| 3               | QPSK       | 1       | 14        | 23.04       | 23.29          | 23.45        |                     |
| 3               | QPSK       | 8       | 0         | 22.33       | 22.23          | 22.27        | 23.5                |
| 3               | QPSK       | 8       | 4         | 22.23       | 22.28          | 22.15        |                     |
| 3               | QPSK       | 8       | 7         | 22.31       | 22.32          | 22.34        |                     |
| 3               | QPSK       | 15      | 0         | 22.18       | 22.13          | 22.31        | 23.5                |
| 3               | 16QAM      | 1       | 0         | 22.32       | 22.39          | 22.44        |                     |
| 3               | 16QAM      | 1       | 8         | 22.17       | 22.20          | 22.28        |                     |
| 3               | 16QAM      | 1       | 14        | 22.19       | 22.24          | 22.26        | 22.5                |
| 3               | 16QAM      | 8       | 0         | 21.13       | 21.17          | 21.29        |                     |
| 3               | 16QAM      | 8       | 4         | 20.96       | 21.01          | 21.15        |                     |
| 3               | 16QAM      | 8       | 7         | 21.08       | 21.02          | 21.05        | 22.5                |
| 3               | 16QAM      | 15      | 0         | 20.88       | 20.86          | 20.88        |                     |
| Channel         |            |         |           | 131979      | 132322         | 132685       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7      | 1745           | 1779.3       |                     |
| 1.4             | QPSK       | 1       | 0         | 23.38       | 23.47          | 23.24        | 24.5                |
| 1.4             | QPSK       | 1       | 3         | 23.23       | 23.38          | 23.26        |                     |
| 1.4             | QPSK       | 1       | 5         | 23.01       | 23.26          | 23.45        |                     |
| 1.4             | QPSK       | 3       | 0         | 23.26       | 23.23          | 23.24        |                     |
| 1.4             | QPSK       | 3       | 1         | 23.24       | 23.25          | 23.27        |                     |
| 1.4             | QPSK       | 3       | 3         | 23.20       | 23.21          | 23.25        | 23.5                |
| 1.4             | QPSK       | 6       | 0         | 22.08       | 22.04          | 22.19        |                     |
| 1.4             | 16QAM      | 1       | 0         | 22.33       | 22.39          | 22.43        | 23.5                |
| 1.4             | 16QAM      | 1       | 3         | 22.15       | 22.20          | 22.27        |                     |
| 1.4             | 16QAM      | 1       | 5         | 22.17       | 22.22          | 22.29        |                     |
| 1.4             | 16QAM      | 3       | 0         | 22.21       | 22.28          | 22.29        |                     |
| 1.4             | 16QAM      | 3       | 1         | 22.24       | 22.22          | 22.26        |                     |
| 1.4             | 16QAM      | 3       | 3         | 22.28       | 22.22          | 22.25        | 22.5                |
| 1.4             | 16QAM      | 6       | 0         | 20.88       | 20.86          | 20.85        |                     |

2.4GHz WLAN ANT 0

| Module                       | Channel | Frequency (MHz) | Received Power (dBm) |       | Power Setting | Peak EVM (%) |
|------------------------------|---------|-----------------|----------------------|-------|---------------|--------------|
|                              |         |                 | Channel              | Total |               |              |
| 802.11a 1Mbps                | CH 1    | 2412            | 16.01                | 20.00 | 16.50         | 0.16         |
|                              | CH 7    | 2462            | 16.00                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.54                | 19.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.68                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.01                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.91                | 19.00 | 16.50         |              |
| 802.11a 1Mbps MCS0           | CH 1    | 2412            | 16.60                | 20.00 | 16.50         | 0.14         |
|                              | CH 7    | 2462            | 16.71                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.66                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.31                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.34                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.67                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS1           | CH 1    | 2412            | 16.56                | 20.00 | 16.50         | 0.17         |
|                              | CH 7    | 2462            | 16.54                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.49                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.40                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.32                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.60                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS10 (FUSION) | CH 1    | 2412            | 16.66                | 20.00 | 16.50         | 0.15         |
|                              | CH 7    | 2462            | 16.61                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.60                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.40                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.31                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.66                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS16 (FUSION) | CH 1    | 2412            | 16.61                | 20.00 | 16.50         | 0.13         |
|                              | CH 7    | 2462            | 16.52                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.50                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.31                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.61                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS18 (FUSION) | CH 1    | 2412            | 16.60                | 20.00 | 16.50         | 0.13         |
|                              | CH 7    | 2462            | 16.55                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.51                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.60                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS19 (FUSION) | CH 1    | 2412            | 16.60                | 20.00 | 16.50         | 0.13         |
|                              | CH 7    | 2462            | 16.57                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.53                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.60                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS20 (FUSION) | CH 1    | 2412            | 16.60                | 20.00 | 16.50         | 0.13         |
|                              | CH 7    | 2462            | 16.58                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.58                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.60                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS21 (FUSION) | CH 1    | 2412            | 16.60                | 20.00 | 16.50         | 0.13         |
|                              | CH 7    | 2462            | 16.59                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.59                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.60                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS22 (FUSION) | CH 1    | 2412            | 16.60                | 20.00 | 16.50         | 0.13         |
|                              | CH 7    | 2462            | 16.59                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.59                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.60                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS23 (FUSION) | CH 1    | 2412            | 16.60                | 20.00 | 16.50         | 0.13         |
|                              | CH 7    | 2462            | 16.59                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.59                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.60                | 20.00 | 16.50         |              |
| 802.11a 1Mbps MCS24 (FUSION) | CH 1    | 2412            | 16.60                | 20.00 | 16.50         | 0.1          |
|                              | CH 7    | 2462            | 16.59                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.59                | 20.00 | 16.50         |              |
|                              | CH 7    | 2462            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 13   | 2472            | 16.30                | 20.00 | 16.50         |              |
|                              | CH 1    | 2412            | 16.60                | 20.00 | 16.50         |              |

5.2GHz WLAN ANT 0

| Mode                 | Channel                   | Frequency (GHz) | Average power (dBm) | Transmit Power (dBm) | Power Setting | Delay Cntrl % |
|----------------------|---------------------------|-----------------|---------------------|----------------------|---------------|---------------|
| 5 GHz WLAN<br>HT & V | 802.11a VHTa              | CH 36           | 5180                | 16.51                | 19.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 16.00                | 18.00         | 16.00         |
|                      |                           | CH 44           | 5240                | <b>16.13</b>         | 19.00         | 16.50         |
|                      | 802.11a VHTa MCS0         | CH 36           | 5180                | 17.00                | 18.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 17.96                | 19.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 16.00                | 18.00         | 16.50         |
|                      | 802.11a VHTa MCS1         | CH 36           | 5180                | 17.84                | 18.00         | 16.00         |
|                      |                           | CH 40           | 5200                | 17.66                | 18.00         | 16.00         |
|                      |                           | CH 44           | 5240                | 17.89                | 18.00         | 16.50         |
|                      | 802.11a VHTa MCS2         | CH 36           | 5180                | 17.88                | 18.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 17.88                | 18.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 17.84                | 18.00         | 16.50         |
|                      | 802.11a VHTa MCS3         | CH 36           | 5180                | 17.84                | 18.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 18.07                | 19.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 16.00                | 18.00         | 16.50         |
|                      | 802.11a VHTa MCS4         | CH 36           | 5180                | 18.07                | 19.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 17.83                | 18.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 17.88                | 18.00         | 16.50         |
|                      | 802.11a VHTa MCS5         | CH 36           | 5180                | 17.88                | 18.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 17.91                | 18.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 18.00                | 19.00         | 16.50         |
|                      | 802.11a VHTa MCS6         | CH 36           | 5180                | 18.00                | 19.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 18.04                | 19.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 18.00                | 19.00         | 16.50         |
|                      | 802.11a VHTa MCS7         | CH 36           | 5180                | 18.00                | 19.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 12.05                | 13.00         | 12.50         |
|                      |                           | CH 44           | 5240                | 12.21                | 13.00         | 12.50         |
|                      | 802.11a VHTa MCS8 (RJU3)  | CH 36           | 5180                | 14.72                | 15.00         | 15.00         |
|                      |                           | CH 40           | 5200                | 14.72                | 15.00         | 15.00         |
|                      |                           | CH 44           | 5240                | 14.97                | 15.00         | 15.00         |
|                      | 802.11a VHTa MCS9 (RJU3)  | CH 36           | 5180                | 17.34                | 18.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 16.86                | 18.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 17.34                | 18.00         | 16.50         |
|                      | 802.11a VHTa MCS10 (RJU3) | CH 36           | 5180                | 17.34                | 18.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 12.20                | 13.00         | 12.50         |
|                      |                           | CH 44           | 5240                | 14.90                | 15.00         | 15.00         |
|                      | 802.11a VHTa MCS11 (RJU3) | CH 36           | 5180                | 18.00                | 19.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 18.00                | 19.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 18.00                | 19.00         | 16.50         |
|                      | 802.11a VHTa MCS12 (RJU3) | CH 36           | 5180                | 18.07                | 19.00         | 18.00         |
|                      |                           | CH 40           | 5200                | 12.28                | 13.00         | 12.50         |
|                      |                           | CH 44           | 5240                | 17.73                | 18.00         | 16.50         |
|                      | 802.11a VHTa MCS13 (RJU3) | CH 36           | 5180                | 17.73                | 18.00         | 16.50         |
|                      |                           | CH 40           | 5200                | 17.73                | 18.00         | 16.50         |
|                      |                           | CH 44           | 5240                | 17.73                | 18.00         | 16.50         |

5.3GHz WLAN ANT 0

|                      | Mode                      | Channel | Frequency (MHz) | Accession (MHz) | Transmit (MHz) | Power Setting | Peak Rate (Kbps) |
|----------------------|---------------------------|---------|-----------------|-----------------|----------------|---------------|------------------|
| 5.0GHz WLAN<br>ANT 0 | 802.11a E84g              | CH 12   | 5260            | 16.00           | 15.00          | 16.50         | 93.15            |
|                      |                           | CH 34   | 5320            | 16.04           | 16.00          | 16.50         |                  |
|                      |                           | CH 36   | 5320            | 16.16           | 16.00          | 16.50         |                  |
|                      | 802.11a H20-MCS0          | CH 34   | 5320            | 17.00           | 16.00          | 16.50         | 92.56            |
|                      |                           | CH 36   | 5320            | 17.20           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 17.40           | 16.00          | 16.50         |                  |
|                      | 802.11a H20-MCS1          | CH 34   | 5320            | 17.40           | 16.00          | 16.50         | 92.29            |
|                      |                           | CH 36   | 5320            | 17.60           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 17.80           | 16.00          | 16.50         |                  |
|                      | 802.11a VHT20-MCS0        | CH 34   | 5320            | 17.60           | 16.00          | 16.50         | 92.05            |
|                      |                           | CH 36   | 5320            | 17.80           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 18.00           | 16.00          | 16.50         |                  |
|                      | 802.11a VHT40-MCS0        | CH 34   | 5320            | 17.60           | 16.00          | 16.50         | 91.29            |
|                      |                           | CH 36   | 5320            | 17.80           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 18.00           | 16.00          | 16.50         |                  |
|                      | 802.11a VHT40-MCS1        | CH 34   | 5320            | 17.80           | 16.00          | 16.50         | 91.06            |
|                      |                           | CH 36   | 5320            | 18.00           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 18.20           | 16.00          | 16.50         |                  |
|                      | 802.11a VHT80-MCS0        | CH 34   | 5320            | 18.00           | 16.00          | 16.50         | 91.07            |
|                      |                           | CH 36   | 5320            | 18.40           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 18.80           | 16.00          | 16.50         |                  |
|                      | 802.11a VHT80-MCS1        | CH 34   | 5320            | 18.80           | 16.00          | 16.50         | 91.08            |
|                      |                           | CH 36   | 5320            | 19.20           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 19.60           | 16.00          | 16.50         |                  |
|                      | 802.11a VHT160-MCS0 (RU0) | CH 34   | 5320            | 19.20           | 16.00          | 16.50         | 90.16            |
|                      |                           | CH 36   | 5320            | 19.60           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 20.00           | 16.00          | 16.50         |                  |
|                      | 802.11a VHT160-MCS1 (RU0) | CH 34   | 5320            | 19.60           | 16.00          | 16.50         | 90.16            |
|                      |                           | CH 36   | 5320            | 20.00           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 20.40           | 16.00          | 16.50         |                  |
|                      | 802.11a VHT320-MCS0 (RU0) | CH 34   | 5320            | 19.60           | 16.00          | 16.50         | 91.05            |
|                      |                           | CH 36   | 5320            | 20.00           | 16.00          | 16.50         |                  |
|                      |                           | CH 38   | 5320            | 20.40           | 16.00          | 16.50         |                  |

5.5GHzWLAN ANT 0

|                    | Mode   | Channel | Primary Power (dBm) | Auxiliary Power (dBm) | Total Power (dBm) | Power Spectral Density | Peak-to-Average Ratio (dB) |
|--------------------|--------|---------|---------------------|-----------------------|-------------------|------------------------|----------------------------|
| 802.11a 54Mbps     | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        |                            |
|                    | CS-100 | 5800    | 10.45               | 10.00                 | 10.30             |                        | 0.15                       |
|                    | CS-104 | 5750    | 10.45               | 10.00                 | 10.50             |                        |                            |
|                    | CS-100 | 5800    | 10.45               | 10.00                 | 10.30             |                        |                            |
| 802.11n HT20 MCS1  | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        | 0.14                       |
|                    | CS-104 | 5750    | 10.04               | 10.04                 | 10.30             |                        |                            |
|                    | CS-102 | 5850    | 10.04               | 10.04                 | 10.50             |                        |                            |
|                    | CS-106 | 5820    | 10.04               | 10.04                 | 10.30             |                        |                            |
| 802.11n HT40 MCS1  | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        | 0.20                       |
|                    | CS-104 | 5750    | 10.20               | 10.20                 | 10.50             |                        |                            |
|                    | CS-102 | 5850    | 10.20               | 10.20                 | 10.50             |                        |                            |
|                    | CS-106 | 5820    | 10.20               | 10.20                 | 10.50             |                        |                            |
| 802.11n VHT20 MCS1 | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        | 0.16                       |
|                    | CS-104 | 5750    | 10.20               | 10.20                 | 10.50             |                        |                            |
|                    | CS-102 | 5850    | 10.20               | 10.20                 | 10.50             |                        |                            |
|                    | CS-106 | 5820    | 10.20               | 10.20                 | 10.50             |                        |                            |
| 802.11n VHT40 MCS1 | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        | 0.20                       |
|                    | CS-104 | 5750    | 10.40               | 10.40                 | 10.50             |                        |                            |
|                    | CS-102 | 5850    | 10.40               | 10.40                 | 10.50             |                        |                            |
|                    | CS-106 | 5820    | 10.40               | 10.40                 | 10.50             |                        |                            |
| 5.8GHz WLAN AP     | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        | 75.00                      |
|                    | CS-106 | 5820    | 10.44               | 10.00                 | 10.50             |                        |                            |
|                    | CS-104 | 5750    | 10.44               | 10.00                 | 10.50             |                        |                            |
|                    | CS-102 | 5850    | 10.44               | 10.00                 | 10.50             |                        |                            |
| 802.11n HEW20 MCS1 | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        | 0.11                       |
|                    | CS-104 | 5750    | 10.00               | 10.00                 | 10.30             |                        |                            |
|                    | CS-102 | 5850    | 10.00               | 10.00                 | 10.30             |                        |                            |
|                    | CS-106 | 5820    | 10.00               | 10.00                 | 10.30             |                        |                            |
| 802.11n HEW40 MCS1 | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        | 0.20                       |
|                    | CS-104 | 5750    | 10.00               | 10.00                 | 10.30             |                        |                            |
|                    | CS-102 | 5850    | 10.00               | 10.00                 | 10.30             |                        |                            |
|                    | CS-106 | 5820    | 10.00               | 10.00                 | 10.30             |                        |                            |
| 802.11n HEW80 MCS1 | CS-100 | 5800    | 10.00               | 10.00                 | 10.00             |                        | 0.16                       |
|                    | CS-104 | 5750    | 10.00               | 10.00                 | 10.30             |                        |                            |
|                    | CS-102 | 5850    | 10.00               | 10.00                 | 10.30             |                        |                            |
|                    | CS-106 | 5820    | 10.00               | 10.00                 | 10.30             |                        |                            |

2.4GHz WLAN ANT 1

| Media             | Channel | Power (dBm) | Antenna Height (m) | Power Limit | Power Setting | Only Cx |
|-------------------|---------|-------------|--------------------|-------------|---------------|---------|
| 2.5GHz WLAN ANT 1 | CH 1    | 2613        | 16.50              | 19.50       | 19.50         | 06.78   |
|                   | CH 7    | 2642        | 16.50              | 19.50       | 19.50         |         |
|                   | CH 13   | 2672        | 16.50              | 19.50       | 19.50         |         |
|                   | CH 1    | 2612        | 20.11              | 21.00       | 19.50         | 01.01   |
|                   | CH 7    | 2642        | 19.50              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 20.11              | 21.00       | 19.50         |         |
|                   | CH 1    | 2612        | 19.50              | 20.50       | 19.50         | 01.03   |
|                   | CH 7    | 2642        | 19.51              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 19.57              | 20.50       | 19.50         |         |
|                   | Cx      | 2625        | 19.55              | 20.50       | 19.50         | 04.57   |
|                   | CH 6    | 2625        | 19.55              | 20.50       | 19.50         |         |
|                   | CH 9    | 2625        | 19.47              | 20.00       | 19.50         |         |
| 2.5GHz WLAN ANT 1 | CH 1    | 2612        | 19.50              | 20.50       | 19.50         | 06.64   |
|                   | CH 7    | 2642        | 19.54              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 5    | 2625        | 19.55              | 20.50       | 19.50         | 01.05   |
|                   | CH 8    | 2625        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 9    | 2625        | 19.44              | 20.00       | 19.50         |         |
|                   | CH 1    | 2612        | 19.52              | 20.50       | 19.50         | 06.55   |
|                   | CH 7    | 2642        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 19.59              | 20.50       | 19.50         |         |
|                   | CH 1    | 2612        | 19.50              | 20.50       | 19.50         | 01.13   |
|                   | CH 7    | 2642        | 19.56              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 19.59              | 20.50       | 19.50         |         |
| 2.5GHz WLAN ANT 1 | CH 1    | 2612        | 19.50              | 20.50       | 19.50         | 06.55   |
|                   | CH 7    | 2642        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 19.59              | 20.50       | 19.50         |         |
|                   | CH 5    | 2625        | 19.55              | 20.50       | 19.50         | 06.55   |
|                   | CH 8    | 2625        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 9    | 2625        | 19.45              | 21.00       | 19.50         |         |
|                   | CH 1    | 2612        | 19.52              | 20.50       | 19.50         | 01.13   |
|                   | CH 7    | 2642        | 19.56              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 19.59              | 20.50       | 19.50         |         |
|                   | CH 5    | 2625        | 19.55              | 20.50       | 19.50         | 06.55   |
|                   | CH 8    | 2625        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 9    | 2625        | 19.45              | 21.00       | 19.50         |         |
| 2.5GHz WLAN ANT 1 | CH 1    | 2612        | 19.50              | 20.50       | 19.50         | 01.13   |
|                   | CH 7    | 2642        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 19.59              | 20.50       | 19.50         |         |
|                   | CH 5    | 2625        | 19.55              | 20.50       | 19.50         | 06.55   |
|                   | CH 8    | 2625        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 9    | 2625        | 19.45              | 21.00       | 19.50         |         |
|                   | CH 1    | 2612        | 19.52              | 20.50       | 19.50         | 01.13   |
|                   | CH 7    | 2642        | 19.56              | 20.50       | 19.50         |         |
|                   | CH 13   | 2672        | 19.59              | 20.50       | 19.50         |         |
|                   | CH 5    | 2625        | 19.55              | 20.50       | 19.50         | 06.55   |
|                   | CH 8    | 2625        | 19.57              | 20.50       | 19.50         |         |
|                   | CH 9    | 2625        | 19.45              | 21.00       | 19.50         |         |

5.2GHz WLAN ANT 1

|                     | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Time Slot | Power Setting | Duty Cycle (%) |
|---------------------|---------------------|---------|-----------------|---------------------|-----------|---------------|----------------|
| 5 GHz WLAN ANT 1    | 802.11a DSSS        | CH-36   | 5150            | 18.10               | 18.10     | 18.10         | 93.15          |
|                     |                     | CH-44   | 5240            | 18.20               | 18.20     | 18.20         |                |
|                     |                     | CH-36   | 5160            | 17.96               | 18.10     | 18.10         |                |
|                     | 802.11a+OFDM MCS0   | CH-36   | 5160            | 17.97               | 18.10     | 18.10         | 93.15          |
|                     |                     | CH-44   | 5230            | 17.97               | 18.10     | 18.10         |                |
|                     |                     | CH-46   | 5250            | 18.07               | 18.10     | 18.10         |                |
|                     | 802.11a+HTFDS MCS0  | CH-36   | 5160            | 18.24               | 18.10     | 18.10         | 93.28          |
|                     |                     | CH-46   | 5236            | 18.22               | 18.10     | 18.10         |                |
|                     |                     | CH-36   | 5160            | 17.74               | 18.10     | 18.10         |                |
|                     | 802.11a+HTFDS MCS18 | CH-36   | 5160            | 18.06               | 18.10     | 18.10         | 93.28          |
|                     |                     | CH-46   | 5236            | 17.91               | 18.10     | 18.10         |                |
|                     |                     | CH-36   | 5160            | 17.93               | 18.10     | 18.10         |                |
|                     | 802.11a+HTFDS MCS24 | CH-46   | 5236            | 18.16               | 18.10     | 18.10         | 93.28          |
|                     |                     | CH-36   | 5160            | 17.71               | 18.10     | 18.10         |                |
|                     |                     | CH-42   | 5216            | 17.82               | 18.10     | 18.10         |                |
|                     | 802.11a+HTFDS MCS30 | CH-46   | 5236            | 17.77               | 18.10     | 18.10         | 93.91          |
|                     |                     | CH-48   | 5242            | 17.68               | 18.10     | 18.10         |                |
|                     |                     | CH-36   | 5160            | 17.89               | 18.10     | 18.10         |                |
|                     | 802.11a+HTFDS MCS36 | CH-36   | 5160            | 17.86               | 18.10     | 18.10         | 93.97          |
|                     |                     | CH-48   | 5236            | 17.98               | 18.10     | 18.10         |                |
|                     |                     | CH-42   | 5216            | 18.03               | 18.10     | 18.10         |                |
|                     | 802.11a+HTFDS MCS42 | CH-36   | 5160            | 18.07               | 18.10     | 18.10         | 93.96          |
|                     |                     | CH-48   | 5236            | 18.02               | 18.10     | 18.10         |                |
|                     |                     | CH-46   | 5232            | 18.10               | 18.10     | 18.10         |                |
| 802.11a+HTFDS MCS48 | CH-48               | 5242    | 18.11           | 18.10               | 18.10     | 94.76         |                |
|                     | CH-36               | 5160    | 18.42           | 18.10               | 18.10     |               |                |
|                     | CH-46               | 5240    | 18.44           | 18.10               | 18.10     |               |                |
| 802.11a+HTFDS MCS54 | CH-36               | 5160    | 17.89           | 18.10               | 18.10     | 94.14         |                |
|                     | CH-44               | 5222    | 17.81           | 18.10               | 18.10     |               |                |
|                     | CH-46               | 5240    | 17.75           | 18.10               | 18.10     |               |                |
| 802.11a+HTFDS MCS60 | CH-36               | 5160    | 18.28           | 18.10               | 18.10     | 95.76         |                |
|                     | CH-46               | 5230    | 18.03           | 18.10               | 18.10     |               |                |
|                     | CH-36               | 5160    | 18.03           | 18.10               | 18.10     |               |                |
| 802.11a+HTFDS MCS66 | CH-36               | 5160    | 18.03           | 18.10               | 18.10     | 95.76         |                |
|                     | CH-46               | 5230    | 18.03           | 18.10               | 18.10     |               |                |
|                     | CH-42               | 5216    | 18.10           | 18.10               | 18.10     |               |                |
| 802.11a+HTFDS MCS72 | CH-42               | 5216    | 18.10           | 18.10               | 18.10     | 96.41         |                |
|                     | CH-42               | 5216    | 18.10           | 18.10               | 18.10     |               |                |
|                     | CH-42               | 5216    | 18.10           | 18.10               | 18.10     |               |                |
| 802.11a+HTFDS MCS78 | CH-42               | 5216    | 18.21           | 18.10               | 18.10     | 96.78         |                |
|                     | CH-42               | 5216    | 18.21           | 18.10               | 18.10     |               |                |
|                     | CH-42               | 5216    | 18.10           | 18.10               | 18.10     |               |                |
| 802.11a+HTFDS MCS84 | CH-42               | 5216    | 17.99           | 18.10               | 18.10     | 97.29         |                |
|                     | CH-42               | 5216    | 17.99           | 18.10               | 18.10     |               |                |
|                     | CH-42               | 5216    | 17.99           | 18.10               | 18.10     |               |                |

5.3GHz WLAN ANT 1

|                   | Media                     | Channel | Frequency (MHz) | Antenna Power (dBm) | Transmit Power (dBm) | Power Setting | City Code |
|-------------------|---------------------------|---------|-----------------|---------------------|----------------------|---------------|-----------|
| 5.5GHz WLAN ANT 1 | 802.11a Mbps              | CH 52   | 5200            | 17.75               | 18.00                | 18.50         |           |
|                   |                           | CH 54   | 5300            | 18.00               | 18.00                | 18.50         | 03.15     |
|                   |                           | CH 56   | 5320            | 18.00               | 18.00                | 18.50         |           |
|                   | 802.11a HT20 MCS0         | CH 52   | 5200            | 17.75               | 17.50                | 18.00         |           |
|                   |                           | CH 54   | 5300            | 18.00               | 18.00                | 18.50         | 03.16     |
|                   |                           | CH 56   | 5320            | 17.75               | 18.00                | 18.50         |           |
|                   | 802.11a HT40 MCS0         | CH 54   | 5275            | 19.75               | 18.50                | 18.50         | 03.20     |
|                   |                           | CH 56   | 5310            | 19.75               | 18.50                | 18.50         |           |
|                   |                           | CH 58   | 5350            | 19.75               | 17.50                | 18.50         |           |
|                   | 802.11a VHT20 MCS0        | CH 56   | 5320            | 17.42               | 18.00                | 18.50         | 02.05     |
|                   |                           | CH 58   | 5320            | 17.42               | 18.00                | 18.50         |           |
|                   |                           | CH 60   | 5375            | 17.42               | 18.00                | 18.50         | 03.20     |
|                   | 802.11a VHT40 MCS0        | CH 58   | 5275            | 19.75               | 18.00                | 18.50         |           |
|                   |                           | CH 60   | 5310            | 19.75               | 18.00                | 18.50         | 03.20     |
|                   |                           | CH 62   | 5350            | 19.75               | 17.50                | 18.50         |           |
|                   | 802.11a VHT80 MCS0        | CH 58   | 5280            | 17.50               | 18.00                | 18.50         | 75.50     |
|                   |                           | CH 60   | 5320            | 17.50               | 18.00                | 18.50         |           |
|                   |                           | CH 62   | 5360            | 17.50               | 18.00                | 18.50         |           |
| 5.5GHz WLAN ANT 2 | 802.11a HT20 MCS0         | CH 52   | 5275            | 17.42               | 18.00                | 18.50         |           |
|                   |                           | CH 54   | 5310            | 17.42               | 18.00                | 18.50         | 03.21     |
|                   |                           | CH 56   | 5350            | 17.42               | 18.00                | 18.50         |           |
|                   | 802.11a HT40 MCS0         | CH 52   | 5275            | 17.42               | 18.00                | 18.50         |           |
|                   |                           | CH 54   | 5310            | 17.75               | 18.00                | 18.50         | 03.21     |
|                   |                           | CH 56   | 5350            | 17.75               | 18.00                | 18.50         | 73.50     |
|                   | 802.11a VHT20 MCS0        | CH 54   | 5280            | 17.50               | 18.00                | 18.50         |           |
|                   |                           | CH 56   | 5320            | 17.50               | 18.00                | 18.50         | 03.21     |
|                   |                           | CH 58   | 5360            | 17.50               | 18.00                | 18.50         |           |
|                   | 802.11a VHT40 MCS0        | CH 56   | 5280            | 17.50               | 18.00                | 18.50         |           |
|                   |                           | CH 58   | 5320            | 17.50               | 18.00                | 18.50         | 03.21     |
|                   |                           | CH 60   | 5360            | 17.50               | 18.00                | 18.50         |           |
|                   | 802.11a VHT80 MCS0 (PUSP) | CH 58   | 5280            | 17.27               | 18.00                | 18.50         |           |
|                   |                           | CH 60   | 5320            | 17.27               | 18.00                | 18.50         | 03.28     |
|                   |                           | CH 62   | 5360            | 17.27               | 18.00                | 18.50         |           |

**5.5 WLAN ANT1**

| Site                | Channel           | Frequency (MHz) |           | Antenna (dBS) | Polarization |          | Power Setting | Data Rate |
|---------------------|-------------------|-----------------|-----------|---------------|--------------|----------|---------------|-----------|
|                     |                   | Primary         | Secondary |               | Horizontal   | Vertical |               |           |
| S. GOSWAMI<br>ANT 1 | 802.11a Mbps      | CH 136          | 5650      | 18.45         | 18.50        | 18.50    |               |           |
|                     |                   | CH 140          | 5685      | 18.40         | 18.50        | 18.50    |               | 93.15     |
|                     |                   | CH 144          | 5720      | 18.25         | 18.50        | 18.50    |               |           |
|                     |                   | CH 148          | 5755      | 18.20         | 18.50        | 18.50    |               |           |
|                     | 802.11n HT20 MCS9 | CH 140          | 5685      | 18.40         | 18.50        | 18.50    |               | 91.94     |
|                     |                   | CH 144          | 5720      | 18.20         | 18.50        | 18.50    |               |           |
|                     |                   | CH 148          | 5755      | 18.20         | 18.50        | 18.50    |               |           |
|                     |                   | CH 152          | 5790      | 18.20         | 18.50        | 18.50    |               |           |
|                     | 802.11n HT40 MCS9 | CH 140          | 5720      | 17.15         | 18.50        | 18.50    |               | 85.29     |
|                     |                   | CH 142          | 5800      | 16.60         | 17.50        | 18.50    |               |           |
|                     |                   | CH 144          | 5880      | 16.60         | 18.50        | 18.50    |               | 92.08     |
|                     |                   | CH 146          | 5960      | 16.60         | 19.50        | 19.50    |               |           |
|                     | 802.11n HT40 MCS9 | CH 120          | 5650      | 18.20         | 18.50        | 18.50    |               | 89.29     |
|                     |                   | CH 124          | 5710      | 18.11         | 20.00        | 18.50    |               |           |
|                     |                   | CH 128          | 5800      | 18.00         | 19.50        | 18.50    |               |           |
|                     |                   | CH 132          | 5875      | 18.00         | 19.50        | 18.50    |               |           |
|                     | 802.11n HT40 MCS9 | CH 120          | 5875      | 16.64         | 19.50        | 18.50    |               | 73.00     |
|                     |                   | CH 122          | 5890      | 16.64         | 19.50        | 18.50    |               |           |
|                     |                   | CH 124          | 5900      | 16.60         | 19.50        | 18.50    |               |           |
|                     |                   | CH 126          | 5920      | 16.60         | 19.50        | 18.50    |               | 90.91     |
|                     | 802.11n HT40 MCS9 | CH 144          | 5720      | 16.78         | 19.50        | 18.50    |               |           |
|                     |                   | CH 150          | 5810      | 16.78         | 19.50        | 18.50    |               |           |
|                     |                   | CH 156          | 5900      | 16.78         | 19.50        | 18.50    |               | 81.67     |
|                     |                   | CH 162          | 5975      | 16.78         | 20.00        | 18.50    |               |           |
| 802.11n HT40 MCS9   | 802.11n HT40 MCS9 | CH 160          | 5950      | 16.30         | 19.50        | 18.50    |               | 89.10     |
|                     |                   | CH 122          | 5875      | 18.11         | 20.00        | 18.50    |               |           |
|                     |                   | CH 124          | 5900      | 18.11         | 20.00        | 18.50    |               |           |
|                     |                   | CH 126          | 5920      | 18.11         | 20.00        | 18.50    |               |           |

2.4GHz WLAN ANT 0+1

| Mode                       | Channel | Frequency (MHz) | Antenna Gain (dBS) | Power (mW) | Power Setting | duty Cycle (%) |
|----------------------------|---------|-----------------|--------------------|------------|---------------|----------------|
| 802.11b (Mbps)             | CH1     | 2412            | N/A                | N/A        | N/A           | N/A            |
|                            | CH2     | 2424            | N/A                | N/A        | N/A           |                |
|                            | CH13    | 2472            | N/A                | N/A        | N/A           |                |
| 802.11g (Mbps)             | CH1     | 2412            | N/A                | N/A        | N/A           | N/A            |
|                            | CH7     | 2460            | N/A                | N/A        | N/A           |                |
|                            | CH13    | 2472            | N/A                | N/A        | N/A           |                |
| 802.11n (HT) (Mbps)        | CH1     | 2412            | 19.04              | 20.00      | 15.00         | 91.84          |
|                            | CH7     | 2462            | 22.80              | 20.00      | 15.00         |                |
|                            | CH13    | 2472            | 18.06              | 15.00      | 15.00         |                |
| 802.11n (VHT) (Mbps)       | CH3     | 2422            | 18.16              | 20.00      | 15.00         | 94.87          |
|                            | CH9     | 2438            | 19.16              | 15.00      | 15.00         |                |
|                            | CH9     | 2452            | 19.20              | 20.00      | 15.00         |                |
| 802.11n (HEW) (Mbps)       | CH1     | 2412            | 18.00              | 15.00      | 15.00         | 90.64          |
|                            | CH7     | 2457            | 19.79              | 15.00      | 15.00         |                |
|                            | CH13    | 2462            | 19.00              | 15.00      | 15.00         |                |
| 802.11n (HEW) (MCS0)       | CH3     | 2422            | 19.17              | 20.00      | 15.00         | 93.65          |
|                            | CH9     | 2437            | 19.16              | 15.00      | 15.00         |                |
|                            | CH9     | 2452            | 19.22              | 20.00      | 15.00         |                |
| 802.11n (HEW) (MCS1) (RU0) | CH1     | 2412            | 18.32              | 15.00      | 15.00         | 91.55          |
|                            | CH7     | 2457            | 18.28              | 15.00      | 15.00         |                |
|                            | CH13    | 2462            | 18.31              | 15.00      | 15.00         |                |
| 802.11n (HEW) (MCS2) (RU0) | CH1     | 2412            | 18.41              | 15.00      | 15.00         | 91.13          |
|                            | CH7     | 2457            | 18.38              | 15.00      | 15.00         |                |
|                            | CH13    | 2462            | 18.36              | 15.00      | 15.00         |                |
| 802.11n (HEW) (MCS3) (RU0) | CH1     | 2412            | 18.45              | 15.00      | 15.00         | 91.13          |
|                            | CH7     | 2457            | 18.33              | 15.00      | 15.00         |                |
|                            | CH13    | 2462            | 18.40              | 15.00      | 15.00         |                |
| 802.11n (HEW) (MCS4) (RU0) | CH3     | 2422            | 18.78              | 15.00      | 15.00         | 95.55          |
|                            | CH9     | 2437            | 18.77              | 15.00      | 15.00         |                |
|                            | CH9     | 2452            | 18.87              | 15.00      | 15.00         |                |
| 802.11n (HEW) (MCS5) (RU0) | CH3     | 2422            | 18.31              | 15.00      | 15.00         | 95.55          |
|                            | CH9     | 2437            | 18.33              | 15.00      | 15.00         |                |
|                            | CH9     | 2452            | 18.40              | 15.00      | 15.00         |                |
| 802.11n (HEW) (MCS6) (RU0) | CH3     | 2422            | 18.39              | 15.00      | 15.00         | 91.13          |
|                            | CH9     | 2437            | 18.39              | 15.00      | 15.00         |                |
|                            | CH9     | 2452            | 18.52              | 15.00      | 15.00         |                |
| 802.11n (HEW) (MCS7) (RU0) | CH3     | 2422            | 18.48              | 15.00      | 15.00         | 92.25          |
|                            | CH9     | 2437            | 18.48              | 15.00      | 15.00         |                |
|                            | CH9     | 2452            | 18.68              | 15.00      | 15.00         |                |

5.2GHz WLAN ANT 0+1

| Mode                | Channel | Frequency (MHz) | Average power (dBm) | Transmit Loss (dB) | Power Setting | Duty Cycle % |
|---------------------|---------|-----------------|---------------------|--------------------|---------------|--------------|
| 802.11a (Mbps)      | CH 36   | 5180            | N/A                 | N/A                | N/A           |              |
|                     | CH 44   | 5220            | N/A                 | N/A                | N/A           | N/A          |
|                     | CH 48   | 5240            | N/A                 | N/A                | N/A           |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 17.81               | 18.00              | 15.00         |              |
|                     | CH 44   | 5220            | 17.80               | 18.00              | 15.00         | 82.00        |
|                     | CH 48   | 5240            | 17.80               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 18.07               | 18.00              | 15.00         |              |
|                     | CH 44   | 5220            | 18.10               | 18.00              | 15.00         | 83.00        |
|                     | CH 48   | 5240            | 17.99               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 17.99               | 18.00              | 15.00         |              |
|                     | CH 44   | 5220            | 17.98               | 18.00              | 15.00         | 82.00        |
|                     | CH 48   | 5240            | 17.98               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 18.00               | 18.00              | 15.00         |              |
|                     | CH 44   | 5220            | 18.10               | 18.00              | 15.00         | 83.00        |
|                     | CH 48   | 5240            | 18.00               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 42   | 5210            | 17.99               | 18.00              | 15.00         | 75.00        |
|                     | CH 46   | 5230            | 17.99               | 18.00              | 15.00         |              |
|                     | CH 44   | 5220            | 18.00               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 44   | 5220            | 18.00               | 18.00              | 15.00         |              |
|                     | CH 48   | 5240            | 18.10               | 18.00              | 15.00         | 83.00        |
|                     | CH 46   | 5230            | 18.00               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 46   | 5230            | 18.04               | 18.00              | 15.00         |              |
|                     | CH 48   | 5240            | 18.10               | 18.00              | 15.00         | 83.00        |
|                     | CH 44   | 5220            | 18.04               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 46   | 5230            | 18.04               | 18.00              | 15.00         |              |
|                     | CH 48   | 5240            | 18.10               | 18.00              | 15.00         | 79.00        |
|                     | CH 44   | 5220            | 18.00               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 44   | 5220            | 18.00               | 18.00              | 15.00         |              |
|                     | CH 48   | 5240            | 18.10               | 18.00              | 15.00         | 83.00        |
|                     | CH 46   | 5230            | 18.00               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 17.72               | 18.00              | 15.00         |              |
|                     | CH 44   | 5220            | 17.61               | 18.00              | 15.00         | 91.00        |
|                     | CH 48   | 5240            | 17.84               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 12.40               | 10.00              | 9.00          | 95.75        |
|                     | CH 44   | 5220            | 15.18               | 10.00              | 12.00         | 95.75        |
|                     | CH 48   | 5240            | 12.16               | 10.00              | 9.00          |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 14.74               | 15.00              | 12.00         |              |
|                     | CH 44   | 5220            | 14.81               | 15.00              | 12.00         | 10.75        |
|                     | CH 48   | 5240            | 14.90               | 15.00              | 12.00         |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 17.72               | 18.00              | 15.00         |              |
|                     | CH 44   | 5220            | 17.61               | 18.00              | 15.00         | 91.00        |
|                     | CH 48   | 5240            | 17.84               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 12.40               | 10.00              | 9.00          | 95.75        |
|                     | CH 44   | 5220            | 15.18               | 10.00              | 12.00         | 95.75        |
|                     | CH 48   | 5240            | 12.16               | 10.00              | 9.00          |              |
| 802.11n (HT20 MCS0) | CH 36   | 5180            | 18.00               | 18.00              | 15.00         | 91.00        |
|                     | CH 44   | 5220            | 18.00               | 18.00              | 15.00         | 85.00        |
|                     | CH 48   | 5240            | 18.00               | 18.00              | 15.00         |              |
| 802.11n (HT20 MCS0) | CH 42   | 5210            | 12.76               | 13.00              | 9.00          | 85.41        |
|                     | CH 42   | 5210            | 13.58               | 13.00              | 12.00         | 95.75        |
|                     | CH 42   | 5210            | 18.10               | 18.00              | 15.00         | 91.00        |
| 802.11n (HT20 MCS0) | CH 42   | 5210            | 17.92               | 18.00              | 15.00         | 81.00        |
|                     | CH 42   | 5210            | 17.84               | 18.00              | 15.00         | 72.00        |

5.3GHz WLAN ANT 0+1

| State                  | Channel | Frequency (MHz) | Received Power (dBm) | Estimated Range (km) | Power Setting | Signal Type |
|------------------------|---------|-----------------|----------------------|----------------------|---------------|-------------|
| B02 1st Mile/Philly    | CH 32   | 5300            | N/A                  | N/A                  | N/A           |             |
|                        | CH 30   | 5300            | N/A                  | N/A                  | N/A           |             |
|                        | CH 34   | 5300            | N/A                  | N/A                  | N/A           |             |
|                        | CH 30   | 5300            | 17.81                | 17.81                | 15.30         | 15.30       |
|                        | CH 30   | 5300            | 17.82                | 18.50                | 15.30         | 15.30       |
|                        | CH 34   | 5300            | 17.76                | 18.50                | 15.30         |             |
|                        | CH 34   | 5070            | 17.99                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 18.08                | 18.50                | 15.30         | 15.30       |
|                        | CH 30   | 5300            | 17.74                | 18.50                | 15.30         |             |
|                        | CH 34   | 5300            | 17.95                | 18.50                | 15.30         |             |
| B02 1st-MPH2 MCN2      | CH 34   | 5300            | 17.97                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 17.89                | 18.50                | 15.30         | 15.30       |
|                        | CH 30   | 5300            | 17.74                | 18.50                | 15.30         |             |
|                        | CH 34   | 5300            | 17.95                | 18.50                | 15.30         |             |
|                        | CH 34   | 5070            | 17.97                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 18.10                | 18.50                | 15.30         | 15.30       |
|                        | CH 34   | 5300            | 17.96                | 18.50                | 15.30         |             |
|                        | CH 34   | 5070            | 17.96                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 17.82                | 18.50                | 15.30         |             |
|                        | CH 34   | 5300            | 18.04                | 18.50                | 15.30         |             |
| B02 1st-HEED MCN2      | CH 34   | 5300            | 17.96                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 17.82                | 18.50                | 15.30         |             |
|                        | CH 34   | 5300            | 18.04                | 18.50                | 15.30         |             |
|                        | CH 34   | 5070            | 17.96                | 18.50                | 15.30         |             |
|                        | CH 32   | 5310            | 18.00                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 17.92                | 18.50                | 15.30         | 15.30       |
|                        | CH 32   | 5300            | 17.87                | 18.50                | 8.90          |             |
|                        | CH 34   | 5300            | 18.21                | 18.50                | 8.90          | 15.10       |
|                        | CH 34   | 5300            | 18.14                | 13.00                | 8.90          |             |
|                        | CH 30   | 5300            | 18.04                | 13.00                | 12.50         |             |
| B02 1st-HEED MCN3 PHO2 | CH 30   | 5300            | 18.04                | 13.00                | 12.50         | 15.10       |
|                        | CH 34   | 5300            | 18.06                | 13.00                | 12.50         |             |
|                        | CH 32   | 5300            | 17.82                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 17.76                | 18.50                | 15.30         |             |
|                        | CH 34   | 5300            | 17.95                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 18.04                | 13.00                | 12.50         |             |
|                        | CH 34   | 5300            | 18.06                | 13.00                | 12.50         |             |
|                        | CH 32   | 5300            | 17.82                | 18.50                | 15.30         |             |
|                        | CH 30   | 5300            | 17.76                | 18.50                | 15.30         |             |
|                        | CH 34   | 5300            | 17.95                | 18.50                | 15.30         |             |

5.5 WLAN ANT 0+1

|                    | Mode             | Channel | Frequency (MHz) | Antenna Gain (dBi) | Transmit Power (W) | Power Setting | Duty Cycle (%) |
|--------------------|------------------|---------|-----------------|--------------------|--------------------|---------------|----------------|
| 5-GHz WLAN ANT 0=1 | 802.11a-802.11g  | CH 100  | 9000            | N/A                | N/A                | N/A           | N/A            |
|                    |                  | CH 102  | 9060            | N/A                | N/A                | N/A           |                |
|                    |                  | CH 144  | 9720            | N/A                | N/A                | N/A           |                |
|                    |                  | CH 146  | 9780            | N/A                | N/A                | N/A           |                |
|                    | 802.11n-802.11ac | CH 100  | 9000            | 18.20              | 10.00              | 15.0          | 51.84          |
|                    |                  | CH 144  | 9720            | 18.70              | 10.00              | 15.0          |                |
|                    |                  | CH 146  | 9780            | 18.70              | 10.00              | 15.0          |                |
|                    |                  | CH 162  | 9960            | 18.70              | 10.00              | 15.0          |                |
|                    | 802.11n-802.11ac | CH 102  | 9060            | 18.41              | 10.00              | 15.0          | 50.29          |
|                    |                  | CH 142  | 9700            | 19.07              | 20.00              | 15.0          |                |
|                    |                  | CH 160  | 9900            | 19.30              | 10.00              | 15.0          |                |
|                    |                  | CH 162  | 9960            | 19.30              | 10.00              | 15.0          |                |
| 5-GHz WLAN ANT 0=1 | 802.11n-802.11ac | CH 100  | 9000            | 18.20              | 10.00              | 15.0          | 52.36          |
|                    |                  | CH 144  | 9720            | 18.70              | 10.00              | 15.0          |                |
|                    |                  | CH 146  | 9780            | 18.70              | 10.00              | 15.0          |                |
|                    |                  | CH 162  | 9960            | 18.70              | 10.00              | 15.0          |                |
|                    | 802.11n-802.11ac | CH 102  | 9060            | 18.41              | 10.00              | 15.0          | 50.29          |
|                    |                  | CH 142  | 9700            | 19.07              | 20.00              | 15.0          |                |
|                    |                  | CH 160  | 9900            | 19.30              | 10.00              | 15.0          |                |
|                    |                  | CH 162  | 9960            | 19.30              | 10.00              | 15.0          |                |
|                    | 802.11n-802.11ac | CH 122  | 9510            | 18.66              | 10.00              | 15.0          | 75.00          |
|                    |                  | CH 138  | 9590            | 18.66              | 10.00              | 15.0          |                |
|                    |                  | CH 154  | 9670            | 18.67              | 10.00              | 15.0          |                |
|                    |                  | CH 170  | 9750            | 18.67              | 10.00              | 15.0          |                |
|                    | 802.11n-802.11ac | CH 100  | 9000            | 18.20              | 10.00              | 15.0          | 50.81          |
|                    |                  | CH 140  | 9680            | 18.67              | 10.00              | 15.0          |                |
|                    |                  | CH 156  | 9760            | 18.67              | 10.00              | 15.0          |                |
|                    |                  | CH 172  | 9840            | 18.67              | 10.00              | 15.0          |                |
|                    | 802.11n-802.11ac | CH 102  | 9060            | 18.41              | 10.00              | 15.0          | 53.57          |
|                    |                  | CH 142  | 9700            | 19.07              | 20.00              | 15.0          |                |
|                    |                  | CH 160  | 9900            | 19.30              | 10.00              | 15.0          |                |
|                    |                  | CH 162  | 9960            | 19.30              | 10.00              | 15.0          |                |
| 5-GHz WLAN ANT 0=1 | 802.11n-802.11ac | CH 100  | 9000            | 18.20              | 10.00              | 15.0          | 55.81          |
|                    |                  | CH 122  | 9510            | 18.77              | 10.00              | 15.0          |                |

|                            |        |      |       |       |       |       |
|----------------------------|--------|------|-------|-------|-------|-------|
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 12.47 | 13.00 | 12.0  | 95.76 |
|                            | CH 120 | 5600 | 12.37 | 13.00 | 12.0  |       |
|                            | CH 144 | 5720 | 12.51 | 13.00 | 12.0  |       |
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 15.23 | 16.00 | 15.00 | 95.76 |
|                            | CH 120 | 5600 | 15.17 | 16.00 | 15.00 |       |
|                            | CH 144 | 5720 | 15.34 | 16.00 | 15.00 |       |
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 16.26 | 16.00 | 16.00 | 91.05 |
|                            | CH 120 | 5600 | 16.21 | 16.00 | 16.00 |       |
|                            | CH 144 | 5720 | 16.39 | 16.00 | 16.00 |       |

## 5.8GHz WLAN ANT 0

| Mode                       | Channel | Frequency (MHz) | Average power (dBm) | Transmit Limit | Power Setting | Duty Cycle % |
|----------------------------|---------|-----------------|---------------------|----------------|---------------|--------------|
| 802.11a-80Mbps             | CH 140  | 5745            | 16.40               | 16.00          | 17.00         | 93.15        |
|                            | CH 157  | 5785            | 16.30               | 20.00          | 17.00         |              |
|                            | CH 160  | 5825            | 16.17               | 20.00          | 17.00         |              |
| 802.11a-HT20 MCS9          | CH 140  | 5745            | 16.21               | 16.00          | 17.00         | 92.06        |
|                            | CH 157  | 5785            | 16.11               | 20.00          | 17.00         |              |
|                            | CH 160  | 5825            | 16.05               | 20.00          | 17.00         |              |
| 802.11a-HT40 MCS9          | CH 157  | 5785            | 16.42               | 16.00          | 17.00         | 85.29        |
|                            | CH 159  | 5795            | 16.37               | 20.00          | 17.00         |              |
|                            | CH 140  | 5745            | 16.43               | 16.00          | 17.00         |              |
| 802.11a-VHT20 MCS9         | CH 157  | 5785            | 16.27               | 20.00          | 17.00         | 92.06        |
|                            | CH 160  | 5825            | 16.13               | 20.00          | 17.00         |              |
|                            | CH 161  | 5795            | 16.35               | 16.00          | 17.00         |              |
| 802.11a-VHT40 MCS9         | CH 159  | 5795            | 16.41               | 20.00          | 17.00         | 85.29        |
|                            | CH 155  | 5775            | 16.82               | 16.00          | 17.00         |              |
|                            | CH 140  | 5745            | 16.32               | 16.00          | 17.00         |              |
| 802.11a-HEWDS MCS9         | CH 157  | 5785            | 16.14               | 20.00          | 17.00         | 95.74        |
|                            | CH 160  | 5825            | 16.11               | 20.00          | 17.00         |              |
|                            | CH 161  | 5795            | 16.52               | 16.00          | 17.00         |              |
| 802.11a-HEWDS MCS9         | CH 159  | 5795            | 16.52               | 16.00          | 17.00         | 85.87        |
|                            | CH 155  | 5775            | 16.40               | 20.00          | 17.00         |              |
|                            | CH 140  | 5745            | 17.53               | 16.00          | 16.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.43               | 16.00          | 16.00         | 95.76        |
|                            | CH 105  | 5825            | 16.46               | 16.00          | 16.00         |              |
|                            | CH 127  | 5785            | 16.18               | 16.00          | 16.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.12               | 16.00          | 16.00         | 95.76        |
|                            | CH 105  | 5825            | 16.18               | 16.00          | 16.00         |              |
|                            | CH 127  | 5785            | 16.51               | 20.00          | 17.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.51               | 20.00          | 17.00         | 91.05        |
|                            | CH 105  | 5825            | 16.37               | 16.00          | 16.00         |              |
|                            | CH 127  | 5785            | 16.51               | 20.00          | 17.00         |              |

| Mode           | Channel | Frequency (MHz) | Average power (dBm) | Transmit Limit | Average power (dBm) | Transmit Limit | Average power (dBm) | Transmit Limit |
|----------------|---------|-----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|
| 802.11a-80Mbps | CH 107  | 5785            | 16.43               | 16.00          | 16.00               | 16.00          | 16.00               | 16.00          |
|                | CH 105  | 5825            | 16.46               | 16.00          | 16.00               | 16.00          | 16.00               | 16.00          |
|                | CH 127  | 5785            | 16.18               | 16.00          | 16.00               | 16.00          | 16.00               | 16.00          |
| Duty Cycle %   |         |                 | 77.2                |                | 77.07               |                | 77.06               |                |

| Mode           | Channel | Frequency (MHz) | Average power (dBm) | Transmit Limit | Average power (dBm) | Transmit Limit |
|----------------|---------|-----------------|---------------------|----------------|---------------------|----------------|
| 802.11a-80Mbps | CH 107  | 5785            | 16.43               | 16.00          | 16.00               | 16.00          |
|                | CH 105  | 5825            | 16.46               | 16.00          | 16.00               | 16.00          |
|                | CH 127  | 5785            | 16.18               | 16.00          | 16.00               | 16.00          |
| Duty Cycle %   |         |                 | 77.2                |                | 77.06               |                |

|                            |        |      |       |       |       |       |
|----------------------------|--------|------|-------|-------|-------|-------|
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 12.24 | 13.00 | 12.0  | 95.76 |
|                            | CH 120 | 5600 | 12.76 | 13.00 | 12.0  |       |
|                            | CH 144 | 5720 | 12.59 | 13.00 | 12.0  |       |
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 14.09 | 16.00 | 15.00 | 95.76 |
|                            | CH 120 | 5600 | 15.05 | 16.00 | 15.00 |       |
|                            | CH 144 | 5720 | 15.45 | 16.00 | 15.00 |       |
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 16.36 | 16.00 | 16.00 | 91.05 |
|                            | CH 120 | 5600 | 16.70 | 16.00 | 16.00 |       |
|                            | CH 144 | 5720 | 16.91 | 16.00 | 16.00 |       |

## 5.8 WLAN ANT 1

| Mode                       | Channel | Frequency (MHz) | Average power (dBm) | Transmit Limit | Power Setting | Duty Cycle % |
|----------------------------|---------|-----------------|---------------------|----------------|---------------|--------------|
| 802.11a-80Mbps             | CH 140  | 5745            | 16.96               | 16.00          | 16.00         | 93.15        |
|                            | CH 157  | 5785            | 16.70               | 20.00          | 16.00         |              |
|                            | CH 160  | 5825            | 16.64               | 20.00          | 16.00         |              |
| 802.11a-HT20 MCS9          | CH 140  | 5745            | 16.64               | 16.00          | 16.00         | 92.06        |
|                            | CH 157  | 5785            | 16.51               | 20.00          | 16.00         |              |
|                            | CH 160  | 5825            | 16.29               | 20.00          | 16.00         |              |
| 802.11a-HT40 MCS9          | CH 159  | 5795            | 16.58               | 20.00          | 16.00         | 85.29        |
|                            | CH 140  | 5745            | 16.58               | 16.00          | 16.00         |              |
|                            | CH 157  | 5785            | 16.24               | 20.00          | 16.00         |              |
| 802.11a-VHT20 MCS9         | CH 160  | 5825            | 16.20               | 20.00          | 16.00         | 92.06        |
|                            | CH 161  | 5795            | 16.91               | 16.00          | 16.00         |              |
|                            | CH 159  | 5795            | 16.31               | 20.00          | 16.00         |              |
| 802.11a-VHT40 MCS9         | CH 155  | 5775            | 16.80               | 16.00          | 16.00         | 73.68        |
|                            | CH 140  | 5745            | 16.80               | 16.00          | 16.00         |              |
|                            | CH 157  | 5785            | 16.20               | 20.00          | 16.00         |              |
| 802.11a-HEWDS MCS9         | CH 160  | 5825            | 16.23               | 20.00          | 16.00         | 95.74        |
|                            | CH 159  | 5795            | 16.60               | 16.00          | 16.00         |              |
|                            | CH 151  | 5755            | 16.00               | 16.00          | 16.00         |              |
| 802.11a-HEWDS MCS9         | CH 159  | 5795            | 16.87               | 16.00          | 16.00         | 85.87        |
|                            | CH 155  | 5775            | 16.34               | 20.00          | 16.00         |              |
|                            | CH 140  | 5745            | 16.91               | 20.00          | 16.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.70               | 20.00          | 16.00         | 95.76        |
|                            | CH 105  | 5825            | 16.55               | 20.00          | 16.00         |              |
|                            | CH 127  | 5785            | 16.45               | 16.00          | 16.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.45               | 16.00          | 16.00         | 95.76        |
|                            | CH 105  | 5825            | 16.60               | 16.00          | 16.00         |              |
|                            | CH 127  | 5785            | 16.80               | 20.00          | 16.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.80               | 20.00          | 16.00         | 95.76        |
|                            | CH 105  | 5825            | 16.60               | 16.00          | 16.00         |              |
|                            | CH 127  | 5785            | 16.91               | 20.00          | 17.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.91               | 20.00          | 17.00         | 91.05        |
|                            | CH 105  | 5825            | 16.27               | 20.00          | 17.00         |              |
|                            | CH 127  | 5785            | 16.91               | 20.00          | 17.00         |              |

|                            |        |      |       |       |       |       |
|----------------------------|--------|------|-------|-------|-------|-------|
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 12.31 | 13.00 | 9.5   | 95.76 |
|                            | CH 120 | 5600 | 12.84 | 13.00 | 9.5   |       |
|                            | CH 144 | 5720 | 12.95 | 13.00 | 9.5   |       |
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 15.14 | 16.00 | 12.00 | 95.76 |
|                            | CH 120 | 5600 | 15.36 | 16.00 | 12.00 |       |
|                            | CH 144 | 5720 | 15.63 | 16.00 | 12.00 |       |
| 802.11a-HEWDS MCS9<br>PLUG | CH 100 | 5500 | 16.70 | 16.00 | 15.00 | 91.05 |
|                            | CH 120 | 5600 | 16.36 | 16.00 | 15.00 |       |
|                            | CH 144 | 5720 | 16.62 | 16.00 | 15.00 |       |

## 5.8 WLAN ANT 0-1

| Mode                       | Channel | Frequency (MHz) | Average power (dBm) | Transmit Limit | Power Setting | Duty Cycle % |
|----------------------------|---------|-----------------|---------------------|----------------|---------------|--------------|
| 802.11a-80Mbps             | CH 140  | 5745            | N/A                 | N/A            | N/A           | N/A          |
|                            | CH 157  | 5785            | N/A                 | N/A            | N/A           |              |
|                            | CH 160  | 5825            | N/A                 | N/A            | N/A           |              |
| 802.11a-HT20 MCS9          | CH 140  | 5745            | 17.05               | 16.00          | 13.00         | 92.06        |
|                            | CH 157  | 5785            | 16.54               | 16.00          | 13.00         |              |
|                            | CH 160  | 5825            | 16.62               | 16.00          | 13.00         |              |
| 802.11a-HT40 MCS9          | CH 155  | 5775            | 16.38               | 16.00          | 13.00         | 85.29        |
|                            | CH 159  | 5795            | 16.60               | 16.00          | 13.00         |              |
|                            | CH 140  | 5745            | 17.08               | 16.00          | 13.00         |              |
| 802.11a-VHT20 MCS9         | CH 157  | 5785            | 16.54               | 16.00          | 13.00         | 92.06        |
|                            | CH 160  | 5825            | 16.70               | 16.00          | 13.00         |              |
|                            | CH 161  | 5795            | 16.31               | 16.00          | 13.00         |              |
| 802.11a-VHT40 MCS9         | CH 155  | 5775            | 16.80               | 16.00          | 13.00         | 73.68        |
|                            | CH 140  | 5745            | 16.80               | 16.00          | 13.00         |              |
|                            | CH 157  | 5785            | 16.20               | 20.00          | 16.00         |              |
| 802.11a-HEWDS MCS9         | CH 160  | 5825            | 16.20               | 16.00          | 13.00         | 95.74        |
|                            | CH 159  | 5795            | 16.87               | 16.00          | 13.00         |              |
|                            | CH 151  | 5755            | 16.00               | 16.00          | 13.00         |              |
| 802.11a-HEWDS MCS9         | CH 159  | 5795            | 16.87               | 16.00          | 13.00         | 85.87        |
|                            | CH 155  | 5775            | 16.34               | 20.00          | 16.00         |              |
|                            | CH 140  | 5745            | 16.91               | 20.00          | 16.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.66               | 16.00          | 13.00         | 95.76        |
|                            | CH 105  | 5825            | 16.66               | 16.00          | 13.00         |              |
|                            | CH 127  | 5785            | 17.75               | 16.00          | 13.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.66               | 16.00          | 13.00         | 95.76        |
|                            | CH 105  | 5825            | 16.64               | 16.00          | 13.00         |              |
|                            | CH 127  | 5785            | 17.08               | 16.00          | 13.00         |              |
| 802.11a-HEWDS MCS9<br>PLUG | CH 107  | 5785            | 16.55               | 16.00          | 13.00         | 91.05        |
|                            | CH 105  | 5825            | 16.34               | 16.00          | 13.00         |              |
|                            | CH 127  | 5785            | 16.55               | 16.00          | 13.00         |              |