



REPORT No.: SZ24020168S01

## Annex E Conducted Power

**Note:**

Conducted power unit: dBm

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



## Full Power

| GSM850          |  | Burst Average Power (dBm) |       |       | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |       | Tune-up Limit (dBm) | Ch Delta > 0.5 |
|-----------------|--|---------------------------|-------|-------|---------------------|---------------------------|-------|-------|---------------------|----------------|
| TX Channel      |  | 128                       | 189   | 251   |                     | 128                       | 189   | 251   |                     |                |
| Frequency (MHz) |  | 824.2                     | 836.4 | 848.8 | Tune-up Limit (dBm) | 824.2                     | 836.4 | 848.8 | Tune-up Limit (dBm) | Ch Delta > 0.5 |
| GSM 1 Tx slot   |  | 32.10                     | 31.93 | 31.90 |                     | 23.10                     | 22.93 | 22.90 |                     |                |
| GPRS 1 Tx slot  |  | 32.14                     | 31.96 | 31.93 | 33.00               | 23.14                     | 22.96 | 22.93 | 24.00               | 0.24           |
| GPRS 2 Tx slots |  | 28.90                     | 28.95 | 28.92 | 30.00               | 22.90                     | 22.95 | 22.92 | 24.00               | 0.05           |
| GPRS 3 Tx slots |  | 26.64                     | 26.48 | 26.46 | 27.50               | 22.38                     | 22.22 | 22.20 | 23.24               | 0.18           |
| GPRS 4 Tx slots |  | 24.44                     | 24.31 | 24.27 | 25.50               | 21.44                     | 21.31 | 21.27 | 22.50               | 0.17           |
| EDGE 1 Tx slot  |  | 26.58                     | 26.48 | 26.44 | 27.00               | 17.58                     | 17.48 | 17.44 | 18.00               | 0.14           |
| EDGE 2 Tx slots |  | 24.55                     | 24.46 | 24.41 | 24.50               | 18.55                     | 18.46 | 18.41 | 18.50               | 0.14           |
| EDGE 3 Tx slots |  | 21.71                     | 21.60 | 21.67 | 22.00               | 17.45                     | 17.34 | 17.41 | 17.74               | 0.11           |
| EDGE 4 Tx slots |  | 20.12                     | 20.01 | 20.08 | 21.00               | 17.12                     | 17.01 | 17.08 | 18.00               | 0.11           |
| Mode            |  |                           | Max.  | 32.14 |                     |                           | Max.  | 23.14 |                     |                |
| Attenuator      |  | Cable Loss : 0.6          |       |       |                     |                           |       |       |                     |                |

| GSM1900         |  | Burst Average Power (dBm) |       |        | Tune-up Limit (dBm) | Frame-Average Power (dBm) |       |        | Tune-up Limit (dBm) | Ch Delta > 0.5 |
|-----------------|--|---------------------------|-------|--------|---------------------|---------------------------|-------|--------|---------------------|----------------|
| TX Channel      |  | 512                       | 661   | 810    |                     | 512                       | 661   | 810    |                     |                |
| Frequency (MHz) |  | 1850.2                    | 1880  | 1909.8 | Tune-up Limit (dBm) | 1850.2                    | 1880  | 1909.8 | Tune-up Limit (dBm) | Ch Delta > 0.5 |
| GSM 1 Tx slot   |  | 29.52                     | 29.55 | 29.47  |                     | 20.52                     | 20.55 | 20.47  |                     |                |
| GPRS 1 Tx slot  |  | 29.54                     | 29.57 | 29.49  | 30.00               | 20.54                     | 20.57 | 20.49  | 21.00               | 0.10           |
| GPRS 2 Tx slots |  | 28.04                     | 28.05 | 27.98  | 28.50               | 22.04                     | 22.05 | 21.98  | 22.50               | 0.07           |
| GPRS 3 Tx slots |  | 25.87                     | 25.94 | 25.81  | 27.00               | 21.61                     | 21.68 | 21.55  | 22.74               | 0.13           |
| GPRS 4 Tx slots |  | 24.63                     | 24.68 | 24.57  | 25.50               | 21.63                     | 21.68 | 21.57  | 22.50               | 0.11           |
| EDGE 1 Tx slot  |  | 25.62                     | 25.53 | 25.40  | 26.50               | 16.62                     | 16.53 | 16.40  | 17.50               | 0.22           |
| EDGE 2 Tx slots |  | 23.68                     | 23.54 | 23.38  | 24.00               | 17.68                     | 17.54 | 17.38  | 18.00               | 0.30           |
| EDGE 3 Tx slots |  | 22.28                     | 22.21 | 22.02  | 23.50               | 18.02                     | 17.95 | 17.76  | 19.24               | 0.26           |
| EDGE 4 Tx slots |  | 21.04                     | 21.01 | 20.95  | 22.50               | 18.04                     | 18.01 | 17.95  | 19.50               | 0.09           |
| Mode            |  |                           | Max.  | 29.57  |                     |                           | Max.  | 22.05  |                     |                |
| Attenuator      |  | Cable Loss : 0.8          |       |        |                     |                           |       |        |                     |                |

| Band            |                         | WCDMA Band II (dBm) |       |        | Tune-up Limit (dBm) | WCDMA Band IV (dBm) |        |        | Tune-up Limit (dBm) | WCDMA Band V (dBm) |       |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|---------------------|-------|--------|---------------------|---------------------|--------|--------|---------------------|--------------------|-------|-------|---------------------|
| TX Channel      |                         | 9262                | 9400  | 9538   |                     | 1312                | 1413   | 1513   |                     | 4132               | 4182  | 4233  |                     |
| Rx Channel      |                         | 9662                | 9800  | 9938   | Tune-up Limit (dBm) | 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            | 23.02               | 22.94 | 22.98  | 23.70               | 22.93               | 23.00  | 22.97  | 23.70               | 22.52              | 22.54 | 22.48 | 23.70               |
| 3GPP Rel 5      | HSDPA Subtest-1         | 21.80               | 21.67 | 21.71  | 22.50               | 21.64               | 21.76  | 21.70  | 22.50               | 21.67              | 21.57 | 21.58 | 22.50               |
| 3GPP Rel 5      | HSDPA Subtest-2         | 21.74               | 21.58 | 21.60  | 22.50               | 21.91               | 21.82  | 21.65  | 22.50               | 21.84              | 21.69 | 21.71 | 22.50               |
| 3GPP Rel 5      | HSDPA Subtest-3         | 21.25               | 21.06 | 20.96  | 22.00               | 21.12               | 21.18  | 21.01  | 22.00               | 21.34              | 21.19 | 21.25 | 22.00               |
| 3GPP Rel 5      | HSDPA Subtest-4         | 21.22               | 21.05 | 21.01  | 22.00               | 21.14               | 21.22  | 21.00  | 22.00               | 21.28              | 21.24 | 21.22 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 21.63               | 21.54 | 21.55  | 22.50               | 21.35               | 21.55  | 21.55  | 22.50               | 21.52              | 21.46 | 21.39 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 21.61               | 21.56 | 21.61  | 22.50               | 21.41               | 21.62  | 21.55  | 22.50               | 21.53              | 21.45 | 21.34 | 22.50               |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 21.16               | 21.09 | 21.11  | 22.00               | 21.00               | 21.02  | 21.13  | 22.00               | 21.04              | 20.92 | 20.83 | 22.00               |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 21.17               | 21.06 | 21.10  | 22.00               | 21.10               | 21.09  | 21.02  | 22.00               | 21.03              | 20.92 | 20.87 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 21.87               | 21.66 | 21.49  | 22.50               | 21.59               | 21.77  | 21.44  | 22.50               | 21.42              | 21.43 | 21.59 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 21.35               | 21.19 | 21.18  | 22.50               | 21.22               | 21.46  | 21.45  | 22.50               | 20.87              | 21.07 | 20.94 | 22.00               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 21.77               | 21.68 | 21.36  | 22.50               | 21.65               | 21.87  | 21.60  | 22.50               | 21.57              | 21.34 | 21.51 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 21.80               | 21.65 | 21.74  | 22.50               | 21.64               | 21.65  | 21.64  | 22.50               | 21.33              | 21.33 | 21.32 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 21.85               | 21.64 | 21.55  | 22.50               | 21.57               | 21.54  | 21.39  | 22.50               | 21.58              | 21.28 | 21.35 | 22.50               |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 21.93               | 21.83 | 21.48  | 22.50               | 21.65               | 21.63  | 21.46  | 22.50               | 21.64              | 21.57 | 21.32 | 22.50               |
| Attenuator      |                         | Cable Loss          |       |        |                     | Cable Loss          |        |        |                     | Cable Loss         |       |       |                     |
| Mode            |                         |                     | Max.  | 23.02  |                     |                     | Max.   | 23.00  |                     |                    | Max.  | 22.54 |                     |



| Band 2 (1900MHz Band) (dBm) |            |         |           |             |                |              |                     |
|-----------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| 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         | 22.93       | 23.18          | 23.02        |                     |
| 20                          | QPSK       | 1       | 49        | 22.91       | 22.98          | 22.79        | 24                  |
| 20                          | QPSK       | 1       | 99        | 22.75       | 22.91          | 22.77        |                     |
| 20                          | QPSK       | 50      | 0         | 22.02       | 22.05          | 22.03        |                     |
| 20                          | QPSK       | 50      | 24        | 22.00       | 22.04          | 21.91        | 23                  |
| 20                          | QPSK       | 50      | 50        | 21.98       | 22.01          | 21.96        |                     |
| 20                          | QPSK       | 100     | 0         | 21.93       | 22.03          | 21.90        |                     |
| 20                          | 16QAM      | 1       | 0         | 22.19       | 22.28          | 22.12        | 23                  |
| 20                          | 16QAM      | 1       | 49        | 22.13       | 22.19          | 22.18        |                     |
| 20                          | 16QAM      | 1       | 99        | 22.02       | 22.04          | 21.96        |                     |
| 20                          | 16QAM      | 50      | 0         | 21.04       | 21.12          | 21.07        | 22                  |
| 20                          | 16QAM      | 50      | 24        | 21.01       | 21.10          | 21.05        |                     |
| 20                          | 16QAM      | 50      | 50        | 20.88       | 20.95          | 20.87        |                     |
| 20                          | 16QAM      | 100     | 0         | 20.99       | 21.11          | 20.98        | 23                  |
| 20                          | 64QAM      | 1       | 0         | 22.04       | 22.16          | 22.05        |                     |
| 20                          | 64QAM      | 1       | 49        | 21.89       | 22.08          | 21.97        |                     |
| 20                          | 64QAM      | 1       | 99        | 21.99       | 22.00          | 21.85        | 22                  |
| 20                          | 64QAM      | 50      | 0         | 21.00       | 21.09          | 20.97        |                     |
| 20                          | 64QAM      | 50      | 24        | 20.97       | 21.07          | 20.90        |                     |
| 20                          | 64QAM      | 50      | 50        | 20.75       | 20.95          | 20.91        | 23                  |
| 20                          | 64QAM      | 100     | 0         | 20.83       | 21.02          | 20.85        |                     |
| Channel                     |            |         |           | 18675       | 18900          | 19125        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1857.5      | 1880           | 1902.5       |                     |
| 15                          | QPSK       | 1       | 0         | 23.21       | 23.34          | 23.31        |                     |
| 15                          | QPSK       | 1       | 37        | 23.24       | 23.30          | 23.12        | 24                  |
| 15                          | QPSK       | 1       | 74        | 23.05       | 23.26          | 23.06        |                     |
| 15                          | QPSK       | 36      | 0         | 22.30       | 22.36          | 22.34        |                     |
| 15                          | QPSK       | 36      | 20        | 22.29       | 22.41          | 22.27        | 23                  |
| 15                          | QPSK       | 36      | 39        | 22.33       | 22.34          | 22.26        |                     |
| 15                          | QPSK       | 75      | 0         | 22.28       | 22.36          | 22.23        |                     |
| 15                          | 16QAM      | 1       | 0         | 22.26       | 22.34          | 22.21        | 23                  |
| 15                          | 16QAM      | 1       | 37        | 22.23       | 22.31          | 22.29        |                     |
| 15                          | 16QAM      | 1       | 74        | 22.15       | 22.15          | 22.03        |                     |
| 15                          | 16QAM      | 36      | 0         | 21.10       | 21.26          | 21.20        | 22                  |
| 15                          | 16QAM      | 36      | 20        | 21.11       | 21.25          | 21.11        |                     |
| 15                          | 16QAM      | 36      | 39        | 20.99       | 21.05          | 20.97        |                     |
| 15                          | 16QAM      | 75      | 0         | 21.06       | 21.18          | 21.07        | 23                  |
| 15                          | 64QAM      | 1       | 0         | 22.10       | 22.29          | 22.19        |                     |
| 15                          | 64QAM      | 1       | 37        | 22.00       | 22.22          | 22.09        |                     |
| 15                          | 64QAM      | 1       | 74        | 22.13       | 22.08          | 21.99        | 22                  |
| 15                          | 64QAM      | 36      | 0         | 21.09       | 21.18          | 21.06        |                     |
| 15                          | 64QAM      | 36      | 20        | 21.07       | 21.16          | 20.98        |                     |
| 15                          | 64QAM      | 36      | 39        | 20.85       | 21.06          | 20.98        | 23                  |
| 15                          | 64QAM      | 75      | 0         | 20.94       | 21.10          | 20.96        |                     |
| Channel                     |            |         |           | 18650       | 18900          | 19150        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1855        | 1880           | 1905         |                     |
| 10                          | QPSK       | 1       | 0         | 23.30       | 23.35          | 23.32        |                     |
| 10                          | QPSK       | 1       | 25        | 23.20       | 23.29          | 23.11        | 24                  |
| 10                          | QPSK       | 1       | 49        | 23.05       | 23.22          | 23.13        |                     |
| 10                          | QPSK       | 25      | 0         | 22.30       | 22.35          | 22.33        |                     |
| 10                          | QPSK       | 25      | 12        | 22.30       | 22.41          | 22.26        | 23                  |
| 10                          | QPSK       | 25      | 25        | 22.25       | 22.30          | 22.26        |                     |
| 10                          | QPSK       | 50      | 0         | 22.29       | 22.37          | 22.22        |                     |
| 10                          | 16QAM      | 1       | 0         | 22.29       | 22.38          | 22.41        | 23                  |
| 10                          | 16QAM      | 1       | 25        | 22.41       | 22.48          | 22.50        |                     |
| 10                          | 16QAM      | 1       | 49        | 22.38       | 22.37          | 22.32        |                     |
| 10                          | 16QAM      | 25      | 0         | 21.39       | 21.46          | 21.36        | 22                  |
| 10                          | 16QAM      | 25      | 12        | 21.33       | 21.46          | 21.34        |                     |
| 10                          | 16QAM      | 25      | 25        | 21.20       | 21.23          | 21.15        |                     |
| 10                          | 16QAM      | 50      | 0         | 21.36       | 21.46          | 21.31        | 23                  |
| 10                          | 64QAM      | 1       | 0         | 22.36       | 22.47          | 22.35        |                     |
| 10                          | 64QAM      | 1       | 25        | 22.24       | 22.36          | 22.31        |                     |
| 10                          | 64QAM      | 1       | 49        | 22.34       | 22.37          | 22.15        | 22                  |
| 10                          | 64QAM      | 25      | 0         | 21.30       | 21.41          | 21.34        |                     |
| 10                          | 64QAM      | 25      | 12        | 21.34       | 21.38          | 21.21        |                     |
| 10                          | 64QAM      | 25      | 25        | 21.08       | 21.28          | 21.19        | 23                  |
| 10                          | 64QAM      | 50      | 0         | 21.12       | 21.34          | 21.21        |                     |
| Channel                     |            |         |           | 18625       | 18900          | 19175        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1852.5      | 1880           | 1907.5       |                     |
| 5                           | QPSK       | 1       | 0         | 23.23       | 23.42          | 23.33        |                     |
| 5                           | QPSK       | 1       | 12        | 23.21       | 23.32          | 23.09        | 24                  |
| 5                           | QPSK       | 1       | 24        | 23.11       | 23.26          | 23.12        |                     |
| 5                           | QPSK       | 12      | 0         | 22.34       | 22.34          | 22.40        |                     |
| 5                           | QPSK       | 12      | 7         | 22.32       | 22.34          | 22.23        | 23                  |
| 5                           | QPSK       | 12      | 13        | 22.30       | 22.35          | 22.26        |                     |
| 5                           | QPSK       | 25      | 0         | 22.23       | 22.35          | 22.20        |                     |
| 5                           | 16QAM      | 1       | 0         | 22.32       | 22.36          | 22.48        | 23                  |
| 5                           | 16QAM      | 1       | 12        | 22.21       | 22.33          | 22.48        |                     |
| 5                           | 16QAM      | 1       | 24        | 22.17       | 22.13          | 22.26        |                     |
| 5                           | 16QAM      | 12      | 0         | 21.17       | 21.21          | 21.40        | 22                  |
| 5                           | 16QAM      | 12      | 7         | 21.10       | 21.22          | 21.39        |                     |
| 5                           | 16QAM      | 12      | 13        | 20.97       | 21.02          | 21.21        |                     |
| 5                           | 16QAM      | 25      | 0         | 21.10       | 21.24          | 21.28        | 23                  |
| 5                           | 64QAM      | 1       | 0         | 22.19       | 22.31          | 22.38        |                     |
| 5                           | 64QAM      | 1       | 12        | 22.23       | 22.38          | 22.28        |                     |
| 5                           | 64QAM      | 1       | 24        | 22.30       | 22.35          | 22.20        | 22                  |
| 5                           | 64QAM      | 12      | 0         | 21.30       | 21.43          | 21.28        |                     |
| 5                           | 64QAM      | 12      | 7         | 21.30       | 21.38          | 21.25        |                     |
| 5                           | 64QAM      | 12      | 13        | 21.06       | 21.28          | 21.19        | 23                  |
| 5                           | 64QAM      | 25      | 0         | 21.14       | 21.34          | 21.19        |                     |
| Channel                     |            |         |           | 18615       | 18900          | 19185        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1851.5      | 1880           | 1908.5       |                     |
| 3                           | QPSK       | 1       | 0         | 23.27       | 23.35          | 23.38        |                     |
| 3                           | QPSK       | 1       | 8         | 23.20       | 23.31          | 23.10        | 24                  |
| 3                           | QPSK       | 1       | 14        | 23.06       | 23.25          | 23.12        |                     |
| 3                           | QPSK       | 8       | 0         | 22.36       | 22.38          | 22.35        |                     |
| 3                           | QPSK       | 8       | 4         | 22.36       | 22.40          | 22.21        | 23                  |
| 3                           | QPSK       | 8       | 7         | 22.24       | 22.38          | 22.26        |                     |

| Band 4 (AWS Band) (dBm)             |            |         |           |             |                |              |                     |
|-------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| 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         | 23.18       | 23.22          | 23.14        |                     |
| 20                                  | QPSK       | 1       | 49        | 23.02       | 23.10          | 23.03        |                     |
| 20                                  | QPSK       | 1       | 99        | 23.07       | 23.14          | 23.05        |                     |
| 20                                  | QPSK       | 50      | 0         | 22.10       | 22.12          | 22.09        | 23                  |
| 20                                  | QPSK       | 50      | 24        | 22.09       | 22.10          | 22.00        |                     |
| 20                                  | QPSK       | 50      | 50        | 22.00       | 22.05          | 21.95        |                     |
| 20                                  | QPSK       | 100     | 0         | 22.02       | 22.07          | 22.04        | 23                  |
| 20                                  | 16QAM      | 1       | 0         | 22.19       | 22.25          | 22.24        |                     |
| 20                                  | 16QAM      | 1       | 49        | 22.14       | 22.21          | 22.16        |                     |
| 20                                  | 16QAM      | 1       | 99        | 22.15       | 22.18          | 22.16        | 22                  |
| 20                                  | 16QAM      | 50      | 0         | 20.92       | 21.01          | 20.96        |                     |
| 20                                  | 16QAM      | 50      | 24        | 20.96       | 21.05          | 20.95        |                     |
| 20                                  | 16QAM      | 50      | 50        | 20.99       | 21.07          | 20.99        | 23                  |
| 20                                  | 16QAM      | 100     | 0         | 21.01       | 21.04          | 21.02        |                     |
| 20                                  | 64QAM      | 1       | 0         | 22.26       | 22.28          | 22.22        |                     |
| 20                                  | 64QAM      | 1       | 49        | 22.20       | 22.22          | 22.16        | 23                  |
| 20                                  | 64QAM      | 1       | 99        | 22.25       | 22.26          | 22.22        |                     |
| 20                                  | 64QAM      | 50      | 0         | 20.94       | 21.02          | 21.00        |                     |
| 20                                  | 64QAM      | 50      | 24        | 20.90       | 21.00          | 20.96        | 22                  |
| 20                                  | 64QAM      | 50      | 50        | 21.02       | 21.06          | 20.98        |                     |
| 20                                  | 64QAM      | 100     | 0         | 21.04       | 21.12          | 21.05        |                     |
| Channel                             |            |         |           | 20025       | 20175          | 20325        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1717.5      | 1732.5         | 1747.5       | 24                  |
| 15                                  | QPSK       | 1       | 0         | 23.16       | 23.15          | 23.07        |                     |
| 15                                  | QPSK       | 1       | 37        | 22.95       | 23.02          | 22.94        |                     |
| 15                                  | QPSK       | 1       | 74        | 23.02       | 23.04          | 23.02        | 23                  |
| 15                                  | QPSK       | 36      | 0         | 22.08       | 22.09          | 22.00        |                     |
| 15                                  | QPSK       | 36      | 20        | 22.02       | 22.07          | 21.94        |                     |
| 15                                  | QPSK       | 36      | 39        | 21.95       | 22.01          | 21.85        | 23                  |
| 15                                  | QPSK       | 75      | 0         | 21.95       | 22.04          | 22.00        |                     |
| 15                                  | 16QAM      | 1       | 0         | 22.17       | 22.20          | 22.15        |                     |
| 15                                  | 16QAM      | 1       | 37        | 22.07       | 22.15          | 22.07        | 23                  |
| 15                                  | 16QAM      | 1       | 74        | 22.10       | 22.11          | 22.14        |                     |
| 15                                  | 16QAM      | 36      | 0         | 20.87       | 20.99          | 20.89        |                     |
| 15                                  | 16QAM      | 36      | 20        | 20.89       | 20.97          | 20.91        | 22                  |
| 15                                  | 16QAM      | 36      | 39        | 20.96       | 20.97          | 20.95        |                     |
| 15                                  | 16QAM      | 75      | 0         | 20.99       | 20.97          | 21.00        |                     |
| 15                                  | 64QAM      | 1       | 0         | 22.22       | 22.25          | 22.17        | 23                  |
| 15                                  | 64QAM      | 1       | 37        | 22.10       | 22.18          | 22.12        |                     |
| 15                                  | 64QAM      | 1       | 74        | 22.21       | 22.25          | 22.14        |                     |
| 15                                  | 64QAM      | 36      | 0         | 20.91       | 20.94          | 20.94        | 22                  |
| 15                                  | 64QAM      | 36      | 20        | 20.84       | 20.97          | 20.86        |                     |
| 15                                  | 64QAM      | 36      | 39        | 20.97       | 20.96          | 20.92        |                     |
| 15                                  | 64QAM      | 75      | 0         | 20.95       | 21.04          | 20.99        |                     |
| Channel                             |            |         |           | 20000       | 20175          | 20350        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1715        | 1732.5         | 1750         | 24                  |
| 10                                  | QPSK       | 1       | 0         | 23.13       | 23.18          | 23.11        |                     |
| 10                                  | QPSK       | 1       | 25        | 22.94       | 23.04          | 22.93        |                     |
| 10                                  | QPSK       | 1       | 49        | 22.98       | 23.05          | 23.04        | 23                  |
| 10                                  | QPSK       | 25      | 0         | 22.07       | 22.04          | 22.01        |                     |
| 10                                  | QPSK       | 25      | 12        | 21.99       | 22.07          | 21.94        |                     |
| 10                                  | QPSK       | 25      | 25        | 21.90       | 22.03          | 21.89        | 23                  |
| 10                                  | QPSK       | 50      | 0         | 21.96       | 21.97          | 22.03        |                     |
| 10                                  | 16QAM      | 1       | 0         | 22.15       | 22.16          | 22.19        |                     |
| 10                                  | 16QAM      | 1       | 25        | 22.05       | 22.17          | 22.15        | 22                  |
| 10                                  | 16QAM      | 1       | 49        | 22.10       | 22.09          | 22.09        |                     |
| 10                                  | 16QAM      | 25      | 0         | 20.83       | 21.00          | 20.89        |                     |
| 10                                  | 16QAM      | 25      | 12        | 20.91       | 20.95          | 20.89        | 23                  |
| 10                                  | 16QAM      | 25      | 25        | 20.89       | 21.04          | 20.92        |                     |
| 10                                  | 16QAM      | 50      | 0         | 20.99       | 21.01          | 20.94        |                     |
| 10                                  | 64QAM      | 1       | 0         | 22.19       | 22.21          | 22.21        | 22                  |
| 10                                  | 64QAM      | 1       | 25        | 22.11       | 22.12          | 22.10        |                     |
| 10                                  | 64QAM      | 1       | 49        | 22.24       | 22.18          | 22.18        |                     |
| 10                                  | 64QAM      | 25      | 0         | 20.86       | 20.99          | 20.93        | 23                  |
| 10                                  | 64QAM      | 25      | 12        | 20.87       | 20.92          | 20.89        |                     |
| 10                                  | 64QAM      | 25      | 25        | 20.97       | 20.99          | 20.87        |                     |
| 10                                  | 64QAM      | 50      | 0         | 20.96       | 21.05          | 20.98        |                     |
| Channel                             |            |         |           | 19975       | 20175          | 20375        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1712.5      | 1732.5         | 1752.5       | 24                  |
| 5                                   | QPSK       | 1       | 0         | 23.11       | 23.12          | 23.06        |                     |
| 5                                   | QPSK       | 1       | 12        | 22.99       | 23.09          | 23.01        |                     |
| 5                                   | QPSK       | 1       | 24        | 22.99       | 23.10          | 22.99        | 23                  |
| 5                                   | QPSK       | 12      | 0         | 22.02       | 22.10          | 22.02        |                     |
| 5                                   | QPSK       | 12      | 7         | 22.04       | 22.05          | 21.96        |                     |
| 5                                   | QPSK       | 12      | 13        | 21.91       | 21.97          | 21.88        | 23                  |
| 5                                   | QPSK       | 25      | 0         | 21.93       | 22.00          | 22.01        |                     |
| 5                                   | 16QAM      | 1       | 0         | 22.09       | 22.16          | 22.22        |                     |
| 5                                   | 16QAM      | 1       | 12        | 22.06       | 22.12          | 22.10        | 22                  |
| 5                                   | 16QAM      | 1       | 24        | 22.07       | 22.08          | 22.11        |                     |
| 5                                   | 16QAM      | 12      | 0         | 20.86       | 20.91          | 20.89        |                     |
| 5                                   | 16QAM      | 12      | 7         | 20.87       | 21.01          | 20.91        | 23                  |
| 5                                   | 16QAM      | 12      | 13        | 20.92       | 21.05          | 20.89        |                     |
| 5                                   | 16QAM      | 25      | 0         | 20.99       | 20.96          | 20.93        |                     |
| 5                                   | 64QAM      | 1       | 0         | 22.22       | 22.27          | 22.13        | 22                  |
| 5                                   | 64QAM      | 1       | 12        | 22.12       | 22.14          | 22.07        |                     |
| 5                                   | 64QAM      | 1       | 24        | 22.19       | 22.24          | 22.20        |                     |
| 5                                   | 64QAM      | 12      | 0         | 20.89       | 20.98          | 20.98        | 23                  |
| 5                                   | 64QAM      | 12      | 7         | 20.84       | 20.96          | 20.91        |                     |
| 5                                   | 64QAM      | 12      | 13        | 20.96       | 21.04          | 20.89        |                     |
| 5                                   | 64QAM      | 25      | 0         | 21.00       | 21.02          | 20.97        |                     |
| Channel                             |            |         |           | 19965       | 20175          | 20385        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1711.5      | 1732.5         | 1753.5       | 24                  |
| 3                                   | QPSK       | 1       | 0         | 23.13       | 23.12          | 23.07        |                     |
| 3                                   | QPSK       | 1       | 8         | 22.99       | 23.01          | 22.95        |                     |
| 3                                   | QPSK       | 1       | 14        | 23.05       | 23.05          | 22.97        | 23                  |
| 3                                   | QPSK       | 8       | 0         | 22.09       | 22.07          | 22.05        |                     |
| 3                                   | QPSK       | 8       | 4         | 22.08       | 22.03          | 21.99        |                     |
| 3                                   | QPSK       | 8       | 7         | 21.92       | 22.02          | 21.87        |                     |



|                 |       |    |    |        |       |        |               |
|-----------------|-------|----|----|--------|-------|--------|---------------|
| 3               | QPSK  | 15 | 0  | 22.28  | 22.37 | 22.27  | 23            |
| 3               | 16QAM | 1  | 0  | 22.29  | 22.36 | 22.21  |               |
| 3               | 16QAM | 1  | 8  | 22.28  | 22.26 | 22.32  |               |
| 3               | 16QAM | 1  | 14 | 22.30  | 22.35 | 22.32  | 22            |
| 3               | 16QAM | 8  | 0  | 21.32  | 21.43 | 21.40  |               |
| 3               | 16QAM | 8  | 4  | 21.35  | 21.39 | 21.34  |               |
| 3               | 16QAM | 8  | 7  | 21.22  | 21.26 | 21.24  | 23            |
| 3               | 16QAM | 15 | 0  | 21.27  | 21.44 | 21.31  |               |
| 3               | 64QAM | 1  | 0  | 22.41  | 22.45 | 22.33  |               |
| 3               | 64QAM | 1  | 8  | 22.17  | 22.44 | 22.29  | 22            |
| 3               | 64QAM | 1  | 14 | 22.35  | 22.31 | 22.13  |               |
| 3               | 64QAM | 8  | 0  | 21.37  | 21.39 | 21.27  |               |
| 3               | 64QAM | 8  | 4  | 21.30  | 21.44 | 21.22  | 23            |
| 3               | 64QAM | 8  | 7  | 21.08  | 21.25 | 21.22  |               |
| 3               | 64QAM | 15 | 0  | 21.19  | 21.38 | 21.20  |               |
| Channel         |       |    |    | 18607  | 18900 | 19193  | Tune-up limit |
| Frequency (MHz) |       |    |    | 1850.7 | 1880  | 1909.3 | (dBm)         |
| 1.4             | QPSK  | 1  | 0  | 23.24  | 23.34 | 23.30  | 24            |
| 1.4             | QPSK  | 1  | 3  | 23.28  | 23.33 | 23.11  |               |
| 1.4             | QPSK  | 1  | 5  | 23.09  | 23.27 | 23.11  |               |
| 1.4             | QPSK  | 3  | 0  | 23.34  | 23.40 | 23.34  | 23            |
| 1.4             | QPSK  | 3  | 1  | 23.36  | 23.41 | 23.19  |               |
| 1.4             | QPSK  | 3  | 3  | 23.31  | 23.29 | 23.25  |               |
| 1.4             | QPSK  | 6  | 0  | 22.25  | 22.36 | 22.22  | 23            |
| 1.4             | 16QAM | 1  | 0  | 22.34  | 22.43 | 22.44  |               |
| 1.4             | 16QAM | 1  | 3  | 22.25  | 22.34 | 22.49  |               |
| 1.4             | 16QAM | 1  | 5  | 22.35  | 22.33 | 22.25  | 22            |
| 1.4             | 16QAM | 3  | 0  | 22.39  | 22.46 | 22.44  |               |
| 1.4             | 16QAM | 3  | 1  | 22.30  | 22.40 | 22.37  |               |
| 1.4             | 16QAM | 3  | 3  | 22.25  | 22.31 | 22.20  | 23            |
| 1.4             | 16QAM | 6  | 0  | 21.35  | 21.45 | 21.30  |               |
| 1.4             | 64QAM | 1  | 0  | 22.41  | 22.46 | 22.34  |               |
| 1.4             | 64QAM | 1  | 3  | 22.18  | 22.44 | 22.26  | 22            |
| 1.4             | 64QAM | 1  | 5  | 22.32  | 22.28 | 22.14  |               |
| 1.4             | 64QAM | 3  | 0  | 22.31  | 22.39 | 22.33  |               |
| 1.4             | 64QAM | 3  | 1  | 22.31  | 22.38 | 22.18  | 22            |
| 1.4             | 64QAM | 3  | 3  | 22.04  | 22.32 | 22.23  |               |
| 1.4             | 64QAM | 6  | 0  | 21.14  | 21.38 | 21.18  |               |

|                 |       |    |    |        |        |        |               |
|-----------------|-------|----|----|--------|--------|--------|---------------|
| 3               | QPSK  | 15 | 0  | 21.98  | 22.06  | 22.00  | 23            |
| 3               | 16QAM | 1  | 0  | 22.15  | 22.19  | 22.18  |               |
| 3               | 16QAM | 1  | 8  | 22.05  | 22.16  | 22.07  |               |
| 3               | 16QAM | 1  | 14 | 22.11  | 22.10  | 22.07  | 22            |
| 3               | 16QAM | 8  | 0  | 20.91  | 20.95  | 20.94  |               |
| 3               | 16QAM | 8  | 4  | 20.94  | 21.03  | 20.94  |               |
| 3               | 16QAM | 8  | 7  | 20.96  | 21.04  | 20.91  | 23            |
| 3               | 16QAM | 15 | 0  | 20.94  | 21.01  | 21.01  |               |
| 3               | 64QAM | 1  | 0  | 22.17  | 22.24  | 22.13  |               |
| 3               | 64QAM | 1  | 8  | 22.12  | 22.12  | 22.12  | 22            |
| 3               | 64QAM | 1  | 14 | 22.23  | 22.22  | 22.15  |               |
| 3               | 64QAM | 8  | 0  | 20.92  | 20.95  | 20.94  |               |
| 3               | 64QAM | 8  | 4  | 20.89  | 20.94  | 20.92  | 23            |
| 3               | 64QAM | 8  | 7  | 21.00  | 21.03  | 20.87  |               |
| 3               | 64QAM | 15 | 0  | 21.01  | 21.10  | 21.00  |               |
| Channel         |       |    |    | 19957  | 20175  | 20393  | Tune-up limit |
| Frequency (MHz) |       |    |    | 1710.7 | 1732.5 | 1754.3 | (dBm)         |
| 1.4             | QPSK  | 1  | 0  | 23.08  | 23.14  | 23.12  | 24            |
| 1.4             | QPSK  | 1  | 3  | 22.94  | 23.09  | 22.93  |               |
| 1.4             | QPSK  | 1  | 5  | 23.01  | 23.11  | 22.96  |               |
| 1.4             | QPSK  | 3  | 0  | 23.02  | 23.03  | 23.03  | 23            |
| 1.4             | QPSK  | 3  | 1  | 23.01  | 23.09  | 22.91  |               |
| 1.4             | QPSK  | 3  | 3  | 22.92  | 23.02  | 22.87  |               |
| 1.4             | QPSK  | 6  | 0  | 21.97  | 22.00  | 22.01  | 22            |
| 1.4             | 16QAM | 1  | 0  | 22.12  | 22.15  | 22.20  |               |
| 1.4             | 16QAM | 1  | 3  | 22.12  | 22.14  | 22.07  |               |
| 1.4             | 16QAM | 1  | 5  | 22.09  | 22.14  | 22.11  | 23            |
| 1.4             | 16QAM | 3  | 0  | 21.87  | 21.94  | 21.88  |               |
| 1.4             | 16QAM | 3  | 1  | 21.92  | 22.01  | 21.90  |               |
| 1.4             | 16QAM | 3  | 3  | 21.92  | 22.06  | 21.97  | 22            |
| 1.4             | 16QAM | 6  | 0  | 20.94  | 20.98  | 20.92  |               |
| 1.4             | 64QAM | 1  | 0  | 22.21  | 22.25  | 22.16  |               |
| 1.4             | 64QAM | 1  | 3  | 22.15  | 22.18  | 22.12  | 23            |
| 1.4             | 64QAM | 1  | 5  | 22.19  | 22.19  | 22.16  |               |
| 1.4             | 64QAM | 3  | 0  | 21.84  | 21.95  | 21.90  |               |
| 1.4             | 64QAM | 3  | 1  | 21.82  | 21.92  | 21.86  | 22            |
| 1.4             | 64QAM | 3  | 3  | 21.99  | 22.00  | 21.91  |               |
| 1.4             | 64QAM | 6  | 0  | 21.02  | 21.11  | 20.98  |               |

| Band 5 (Cellular 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         | 23.08       | 23.13          | 23.10        | 24                  |
| 10                                                                 | QPSK       | 1       | 25        | 22.99       | 23.04          | 22.94        |                     |
| 10                                                                 | QPSK       | 1       | 49        | 23.05       | 23.11          | 23.07        |                     |
| 10                                                                 | QPSK       | 25      | 0         | 21.99       | 22.05          | 22.01        | 23                  |
| 10                                                                 | QPSK       | 25      | 12        | 21.85       | 21.97          | 21.90        |                     |
| 10                                                                 | QPSK       | 25      | 25        | 21.89       | 22.01          | 21.87        |                     |
| 10                                                                 | QPSK       | 50      | 0         | 21.94       | 22.00          | 21.92        | 23                  |
| 10                                                                 | 16QAM      | 1       | 0         | 22.22       | 22.28          | 22.20        |                     |
| 10                                                                 | 16QAM      | 1       | 25        | 22.17       | 22.25          | 22.20        |                     |
| 10                                                                 | 16QAM      | 1       | 49        | 22.20       | 22.21          | 22.15        | 22                  |
| 10                                                                 | 16QAM      | 25      | 0         | 21.01       | 21.08          | 21.01        |                     |
| 10                                                                 | 16QAM      | 25      | 12        | 20.91       | 20.99          | 20.90        |                     |
| 10                                                                 | 16QAM      | 25      | 25        | 20.96       | 21.01          | 20.98        | 23                  |
| 10                                                                 | 16QAM      | 50      | 0         | 20.94       | 21.04          | 20.94        |                     |
| 10                                                                 | 64QAM      | 1       | 0         | 22.07       | 22.09          | 21.99        |                     |
| 10                                                                 | 64QAM      | 1       | 25        | 21.95       | 22.05          | 21.97        | 22                  |
| 10                                                                 | 64QAM      | 1       | 49        | 22.00       | 22.01          | 21.97        |                     |
| 10                                                                 | 64QAM      | 25      | 0         | 20.94       | 20.99          | 20.92        |                     |
| 10                                                                 | 64QAM      | 25      | 12        | 20.92       | 20.96          | 20.86        | 22                  |
| 10                                                                 | 64QAM      | 25      | 25        | 20.91       | 20.95          | 20.91        |                     |
| 10                                                                 | 64QAM      | 50      | 0         | 20.90       | 20.92          | 20.85        |                     |
| Channel                                                            |            |         |           | 20425       | 20525          | 20625        | Tune-up limit (dBm) |
| Frequency (MHz)                                                    |            |         |           | 828.5       | 836.5          | 846.5        |                     |
| 5                                                                  | QPSK       | 1       | 0         | 23.01       | 23.11          | 23.05        | 24                  |
| 5                                                                  | QPSK       | 1       | 12        | 22.93       | 23.01          | 22.92        |                     |
| 5                                                                  | QPSK       | 1       | 24        | 23.02       | 23.06          | 23.03        |                     |
| 5                                                                  | QPSK       | 12      | 0         | 21.94       | 21.97          | 21.99        | 23                  |
| 5                                                                  | QPSK       | 12      | 7         | 21.79       | 21.96          | 21.83        |                     |
| 5                                                                  | QPSK       | 12      | 13        | 21.79       | 21.92          | 21.81        |                     |
| 5                                                                  | QPSK       | 25      | 0         | 21.86       | 21.97          | 21.84        | 23                  |
| 5                                                                  | 16QAM      | 1       | 0         | 22.13       | 22.26          | 22.18        |                     |
| 5                                                                  | 16QAM      | 1       | 12        | 22.14       | 22.21          | 22.14        |                     |
| 5                                                                  | 16QAM      | 1       | 24        | 22.10       | 22.20          | 22.10        | 22                  |
| 5                                                                  | 16QAM      | 12      | 0         | 20.94       | 21.04          | 20.92        |                     |
| 5                                                                  | 16QAM      | 12      | 7         | 20.88       | 20.89          | 20.84        |                     |
| 5                                                                  | 16QAM      | 12      | 13        | 20.91       | 20.95          | 20.97        | 23                  |
| 5                                                                  | 16QAM      | 25      | 0         | 20.91       | 21.03          | 20.84        |                     |
| 5                                                                  | 64QAM      | 1       | 0         | 22.04       | 22.04          | 21.92        |                     |
| 5                                                                  | 64QAM      | 1       | 12        | 21.86       | 21.97          | 21.95        | 22                  |
| 5                                                                  | 64QAM      | 1       | 24        | 21.95       | 21.95          | 21.94        |                     |
| 5                                                                  | 64QAM      | 12      | 0         | 20.84       | 20.89          | 20.91        |                     |
| 5                                                                  | 64QAM      | 12      | 7         | 20.82       | 20.95          | 20.78        | 22                  |
| 5                                                                  | 64QAM      | 12      | 13        | 20.88       | 20.91          | 20.83        |                     |
| 5                                                                  | 64QAM      | 25      | 0         | 20.87       | 20.88          | 20.78        |                     |
| Channel                                                            |            |         |           | 20415       | 20525          | 20635        | Tune-up limit (dBm) |
| Frequency (MHz)                                                    |            |         |           | 825.5       | 836.5          | 847.5        |                     |
| 3                                                                  | QPSK       | 1       | 0         | 23.05       | 23.06          | 23.01        | 24                  |
| 3                                                                  | QPSK       | 1       | 8         | 22.89       | 23.03          | 22.90        |                     |
| 3                                                                  | QPSK       | 1       | 14        | 23.03       | 23.04          | 23.02        |                     |
| 3                                                                  | QPSK       | 8       | 0         | 21.97       | 21.95          | 21.92        | 23                  |
| 3                                                                  | QPSK       | 8       | 4         | 21.79       | 21.96          | 21.80        |                     |
| 3                                                                  | QPSK       | 8       | 7         | 21.87       | 21.93          | 21.86        |                     |
| 3                                                                  | QPSK       | 15      | 0         | 21.93       | 21.94          | 21.85        | 23                  |
| 3                                                                  | 16QAM      | 1       | 0         | 22.16       | 22.23          | 22.10        |                     |
| 3                                                                  | 16QAM      | 1       | 8         | 22.10       | 22.16          | 22.12        |                     |
| 3                                                                  | 16QAM      | 1       | 14        | 22.13       | 22.18          | 22.14        | 22                  |
| 3                                                                  | 16QAM      | 8       | 0         | 20.99       | 21.00          | 20.95        |                     |
| 3                                                                  | 16QAM      | 8       | 4         | 20.83       | 20.89          | 20.80        |                     |
| 3                                                                  | 16QAM      | 8       | 7         | 20.89       | 20.99          | 20.95        | 23                  |
| 3                                                                  | 16QAM      | 15      | 0         | 20.87       | 20.99          | 20.86        |                     |
| 3                                                                  | 64QAM      | 1       | 0         | 22.05       | 21.99          | 21.92        |                     |
| 3                                                                  | 64QAM      | 1       | 8         | 21.88       | 22.02          | 21.92        | 22                  |
| 3                                                                  | 64QAM      | 1       | 14        | 21.93       | 21.99          | 21.94        |                     |
| 3                                                                  | 64QAM      | 8       | 0         | 20.88       | 20.91          | 20.89        |                     |
| 3                                                                  | 64QAM      | 8       | 4         | 20.84       | 20.86          | 20.80        | 23                  |
| 3                                                                  | 64QAM      | 8       | 7         | 20.87       | 20.91          | 20.85        |                     |
| 3                                                                  | 64QAM      | 15      | 0         | 20.83       | 20.88          | 20.79        |                     |
| Channel                                                            |            |         |           | 20407       | 20525          | 20643        | Tune-up limit (dBm) |
| Frequency (MHz)                                                    |            |         |           | 824.7       | 836.5          | 848.3        |                     |
| 1.4                                                                | QPSK       | 1       | 0         | 23.01       | 23.06          | 23.07        | 24                  |
| 1.4                                                                | QPSK       | 1       | 3         | 22.95       | 22.96          | 22.86        |                     |
| 1.4                                                                | QPSK       | 1       | 5         | 22.97       | 23.08          | 22.98        |                     |
| 1.4                                                                | QPSK       | 3       | 0         | 22.90       | 23.01          | 22.91        | 23                  |
| 1.4                                                                | QPSK       | 3       | 1         | 22.81       | 22.96          | 22.80        |                     |
| 1.4                                                                | QPSK       | 3       | 3         | 22.81       | 22.93          | 22.84        |                     |
| 1.4                                                                | QPSK       | 6       | 0         | 21.91       | 21.97          | 21.89        | 23                  |
| 1.4                                                                | 16QAM      | 1       | 0         | 22.21       | 22.24          | 22.18        |                     |
| 1.4                                                                | 16QAM      | 1       | 3         | 22.14       | 22.18          | 22.15        |                     |
| 1.4                                                                | 16QAM      | 1       | 5         | 22.13       | 22.19          | 22.10        | 22                  |
| 1.4                                                                | 16QAM      | 3       | 0         | 22.00       | 22.06          | 21.93        |                     |
| 1.4                                                                | 16QAM      | 3       | 1         | 21.88       | 21.98          | 21.85        |                     |
| 1.4                                                                | 16QAM      | 3       | 3         | 21.93       | 21.92          | 21.93        | 23                  |
| 1.4                                                                | 16QAM      | 6       | 0         | 20.89       | 20.96          | 20.85        |                     |
| 1.4                                                                | 64QAM      | 1       | 0         | 21.98       | 22.08          | 21.97        |                     |
| 1.4                                                                | 64QAM      | 1       | 3         | 21.90       | 22.04          | 21.87        | 22                  |
| 1.4                                                                | 64QAM      | 1       | 5         | 21.93       | 21.91          | 21.90        |                     |
| 1.4                                                                | 64QAM      | 3       | 0         | 21.88       | 21.91          | 21.86        |                     |
| 1.4                                                                | 64QAM      | 3       | 1         | 21.90       | 21.88          | 21.80        | 22                  |
| 1.4                                                                | 64QAM      | 3       | 3         | 21.81       | 21.86          | 21.90        |                     |
| 1.4                                                                | 64QAM      | 6       | 0         | 20.83       | 20.91          | 20.79        |                     |

| 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                                                               |            |         |           | 23090       | 23095          | 23130        |                     |
| Frequency (MHz)                                                       |            |         |           | 704         | 707.5          | 711          |                     |
| 10                                                                    | QPSK       | 1       | 0         | 23.21       | 23.25          | 23.18        | 24                  |
| 10                                                                    | QPSK       | 1       | 25        | 23.18       | 23.20          | 23.14        |                     |
| 10                                                                    | QPSK       | 1       | 49        | 23.11       | 23.19          | 23.12        |                     |
| 10                                                                    | QPSK       | 25      | 0         | 22.23       | 22.24          | 22.14        | 23                  |
| 10                                                                    | QPSK       | 25      | 12        | 22.19       | 22.21          | 22.15        |                     |
| 10                                                                    | QPSK       | 25      | 25        | 22.15       | 22.19          | 22.12        |                     |
| 10                                                                    | QPSK       | 50      | 0         | 22.11       | 22.20          | 22.14        | 23                  |
| 10                                                                    | 16QAM      | 1       | 0         | 22.34       | 22.44          | 22.34        |                     |
| 10                                                                    | 16QAM      | 1       | 25        | 22.22       | 22.31          | 22.27        |                     |
| 10                                                                    | 16QAM      | 1       | 49        | 22.39       | 22.42          | 22.35        | 22                  |
| 10                                                                    | 16QAM      | 25      | 0         | 21.09       | 21.16          | 21.14        |                     |
| 10                                                                    | 16QAM      | 25      | 12        | 21.04       | 21.13          | 21.07        |                     |
| 10                                                                    | 16QAM      | 25      | 25        | 21.09       | 21.19          | 21.09        | 23                  |
| 10                                                                    | 16QAM      | 50      | 0         | 21.15       | 21.25          | 21.16        |                     |
| 10                                                                    | 64QAM      | 1       | 0         | 22.19       | 22.24          | 22.15        |                     |
| 10                                                                    | 64QAM      | 1       | 25        | 22.15       | 22.22          | 22.15        | 22                  |
| 10                                                                    | 64QAM      | 1       | 49        | 22.17       | 22.26          | 22.23        |                     |
| 10                                                                    | 64QAM      | 25      | 0         | 21.15       | 21.17          | 21.11        |                     |
| 10                                                                    | 64QAM      | 25      | 12        | 21.18       | 21.21          | 21.17        | 23                  |
| 10                                                                    | 64QAM      | 25      | 25        | 21.15       | 21.23          | 21.19        |                     |
| 10                                                                    | 64QAM      | 50      | 0         | 21.10       | 21.19          | 21.09        |                     |
| Channel                                                               |            |         |           | 23035       | 23095          | 23155        | Tune-up limit (dBm) |
| Frequency (MHz)                                                       |            |         |           | 701.5       | 707.5          | 713.5        |                     |
| 5                                                                     | QPSK       | 1       | 0         | 23.20       | 23.23          | 23.21        | 24                  |
| 5                                                                     | QPSK       | 1       | 12        | 23.19       | 23.15          | 23.09        |                     |
| 5                                                                     | QPSK       | 1       | 24        | 23.11       | 23.19          | 23.09        |                     |
| 5                                                                     | QPSK       | 12      | 0         | 22.18       | 22.25          | 22.13        | 23                  |
| 5                                                                     | QPSK       | 12      | 7         | 22.15       | 22.21          | 22.15        |                     |
| 5                                                                     | QPSK       | 12      | 13        | 22.18       | 22.17          | 22.07        |                     |
| 5                                                                     | QPSK       | 25      | 0         | 22.07       | 22.22          | 22.17        | 23                  |
| 5                                                                     | 16QAM      | 1       | 0         | 22.36       | 22.46          | 22.34        |                     |
| 5                                                                     | 16QAM      | 1       | 12        | 22.25       | 22.26          | 22.30        |                     |
| 5                                                                     | 16QAM      | 1       | 24        | 22.42       | 22.38          | 22.38        | 22                  |
| 5                                                                     | 16QAM      | 12      | 0         | 21.07       | 21.19          | 21.16        |                     |
| 5                                                                     | 16QAM      | 12      | 7         | 21.07       | 21.08          | 21.10        |                     |
| 5                                                                     | 16QAM      | 12      | 13        | 21.08       | 21.19          | 21.03        | 23                  |
| 5                                                                     | 16QAM      | 25      | 0         | 21.12       | 21.23          | 21.15        |                     |
| 5                                                                     | 64QAM      | 1       | 0         | 22.17       | 22.26          | 22.11        |                     |
| 5                                                                     | 64QAM      | 1       | 12        | 22.18       | 22.17          | 22.10        | 22                  |
| 5                                                                     | 64QAM      | 1       | 24        | 22.15       | 22.24          | 22.20        |                     |
| 5                                                                     | 64QAM      | 12      | 0         | 21.12       | 21.11          | 21.05        |                     |
| 5                                                                     | 64QAM      | 12      | 7         | 21.18       | 21.17          | 21.15        | 22                  |
| 5                                                                     | 64QAM      | 12      | 13        | 21.11       | 21.22          | 21.15        |                     |
| 5                                                                     | 64QAM      | 25      | 0         | 21.10       | 21.19          | 21.06        |                     |
| Channel                                                               |            |         |           | 23025       | 23095          | 23165        | Tune-up limit (dBm) |
| Frequency (MHz)                                                       |            |         |           | 700.5       | 707.5          | 714.5        |                     |
| 3                                                                     | QPSK       | 1       | 0         | 23.05       | 23.01          | 23.03        | 23.5                |
| 3                                                                     | QPSK       | 1       | 8         | 23.02       | 23.01          | 22.95        |                     |
| 3                                                                     | QPSK       | 1       | 14        | 22.95       | 23.00          | 22.95        |                     |
| 3                                                                     | QPSK       | 8       | 0         | 22.07       | 22.08          | 21.99        | 22.5                |
| 3                                                                     | QPSK       | 8       | 4         | 21.96       | 21.99          | 21.98        |                     |
| 3                                                                     | QPSK       | 8       | 7         | 21.91       | 22.02          | 21.93        |                     |
| 3                                                                     | QPSK       | 15      | 0         | 21.88       | 21.97          | 21.90        | 22.5                |
| 3                                                                     | 16QAM      | 1       | 0         | 22.11       | 22.26          | 22.12        |                     |
| 3                                                                     | 16QAM      | 1       | 8         | 22.04       | 22.10          | 22.12        |                     |
| 3                                                                     | 16QAM      | 1       | 14        | 22.15       | 22.22          | 22.15        | 21.5                |
| 3                                                                     | 16QAM      | 8       | 0         | 20.85       | 20.96          | 20.93        |                     |
| 3                                                                     | 16QAM      | 8       | 4         | 20.89       | 20.96          | 20.87        |                     |
| 3                                                                     | 16QAM      | 8       | 7         | 20.87       | 20.95          | 20.94        | 22.5                |
| 3                                                                     | 16QAM      | 15      | 0         | 21.00       | 21.08          | 20.92        |                     |
| 3                                                                     | 64QAM      | 1       | 0         | 22.00       | 22.00          | 21.98        |                     |
| 3                                                                     | 64QAM      | 1       | 8         | 21.97       | 22.05          | 21.91        | 21.5                |
| 3                                                                     | 64QAM      | 1       | 14        | 22.00       | 22.11          | 22.05        |                     |
| 3                                                                     | 64QAM      | 8       | 0         | 20.97       | 20.97          | 20.96        |                     |
| 3                                                                     | 64QAM      | 8       | 4         | 20.96       | 21.03          | 20.94        | 22.5                |
| 3                                                                     | 64QAM      | 8       | 7         | 20.93       | 21.08          | 20.98        |                     |
| 3                                                                     | 64QAM      | 15      | 0         | 20.94       | 21.03          | 20.90        |                     |
| Channel                                                               |            |         |           | 23017       | 23095          | 23173        | Tune-up limit (dBm) |
| Frequency (MHz)                                                       |            |         |           | 699.7       | 707.5          | 715.3        |                     |
| 1.4                                                                   | QPSK       | 1       | 0         | 22.96       | 22.98          | 22.94        | 23.5                |
| 1.4                                                                   | QPSK       | 1       | 3         | 22.93       | 22.92          | 22.86        |                     |
| 1.4                                                                   | QPSK       | 1       | 5         | 22.86       | 22.91          | 22.86        |                     |
| 1.4                                                                   | QPSK       | 3       | 0         | 21.98       | 21.99          | 21.90        | 22.5                |
| 1.4                                                                   | QPSK       | 3       | 1         | 21.87       | 21.90          | 21.89        |                     |
| 1.4                                                                   | QPSK       | 3       | 3         | 21.82       | 21.93          | 21.84        |                     |
| 1.4                                                                   | QPSK       | 6       | 0         | 21.79       | 21.88          | 21.81        | 22.5                |
| 1.4                                                                   | 16QAM      | 1       | 0         | 22.02       | 22.17          | 22.03        |                     |
| 1.4                                                                   | 16QAM      | 1       | 3         | 21.95       | 22.01          | 22.03        |                     |
| 1.4                                                                   | 16QAM      | 1       | 5         | 22.06       | 22.13          | 22.06        | 21.5                |
| 1.4                                                                   | 16QAM      | 3       | 0         | 20.76       | 20.87          | 20.84        |                     |
| 1.4                                                                   | 16QAM      | 3       | 1         | 20.80       | 20.87          | 20.78        |                     |
| 1.4                                                                   | 16QAM      | 3       | 3         | 20.78       | 20.86          | 20.85        | 22.5                |
| 1.4                                                                   | 16QAM      | 6       | 0         | 20.91       | 20.99          | 20.83        |                     |
| 1.4                                                                   | 64QAM      | 1       | 0         | 21.91       | 21.91          | 21.89        |                     |
| 1.4                                                                   | 64QAM      | 1       | 3         | 21.88       | 21.96          | 21.82        | 21.5                |
| 1.4                                                                   | 64QAM      | 1       | 5         | 21.91       | 22.02          | 21.96        |                     |
| 1.4                                                                   | 64QAM      | 3       | 0         | 20.88       | 20.88          | 20.87        |                     |
| 1.4                                                                   | 64QAM      | 3       | 1         | 20.87       | 20.94          | 20.85        | 22.5                |
| 1.4                                                                   | 64QAM      | 3       | 3         | 20.84       | 20.99          | 20.89        |                     |
| 1.4                                                                   | 64QAM      | 6       | 0         | 20.85       | 20.94          | 20.81        |                     |



| 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        |                     |
| Frequency (MHz)                                                   |            |         |           | 709         | 710            | 711          |                     |
| 10                                                                | QPSK       | 1       | 0         | 23.17       | 23.20          | 23.19        | 24                  |
| 10                                                                | QPSK       | 1       | 25        | 23.16       | 23.18          | 23.10        |                     |
| 10                                                                | QPSK       | 1       | 49        | 23.07       | 23.17          | 23.07        |                     |
| 10                                                                | QPSK       | 25      | 0         | 22.17       | 22.19          | 22.13        | 23                  |
| 10                                                                | QPSK       | 25      | 12        | 22.12       | 22.15          | 22.06        |                     |
| 10                                                                | QPSK       | 25      | 25        | 22.06       | 22.16          | 22.11        |                     |
| 10                                                                | QPSK       | 50      | 0         | 22.16       | 22.17          | 22.15        | 23                  |
| 10                                                                | QPSK       | 1       | 0         | 22.45       | 22.47          | 22.37        |                     |
| 10                                                                | 16QAM      | 1       | 25        | 22.31       | 22.41          | 22.38        |                     |
| 10                                                                | 16QAM      | 1       | 49        | 22.37       | 22.45          | 22.44        | 22                  |
| 10                                                                | 16QAM      | 25      | 0         | 21.27       | 21.34          | 21.27        |                     |
| 10                                                                | 16QAM      | 25      | 12        | 21.21       | 21.31          | 21.26        |                     |
| 10                                                                | 16QAM      | 25      | 25        | 21.18       | 21.26          | 21.21        | 23                  |
| 10                                                                | 16QAM      | 50      | 0         | 21.22       | 21.28          | 21.19        |                     |
| 10                                                                | 64QAM      | 1       | 0         | 22.44       | 22.48          | 22.41        |                     |
| 10                                                                | 64QAM      | 1       | 25        | 22.34       | 22.43          | 22.40        | 22                  |
| 10                                                                | 64QAM      | 1       | 49        | 22.38       | 22.39          | 22.29        |                     |
| 10                                                                | 64QAM      | 25      | 0         | 21.20       | 21.21          | 21.14        |                     |
| 10                                                                | 64QAM      | 25      | 12        | 21.27       | 21.30          | 21.25        | 22                  |
| 10                                                                | 64QAM      | 25      | 25        | 21.18       | 21.26          | 21.21        |                     |
| 10                                                                | 64QAM      | 50      | 0         | 21.23       | 21.27          | 21.21        |                     |
| Channel                                                           |            |         |           | 23755       | 23790          | 23825        | Tune-up limit (dBm) |
| Frequency (MHz)                                                   |            |         |           | 706.5       | 710            | 713.5        |                     |
| 5                                                                 | QPSK       | 1       | 0         | 23.11       | 23.18          | 23.14        | 24                  |
| 5                                                                 | QPSK       | 1       | 12        | 23.13       | 23.17          | 23.06        |                     |
| 5                                                                 | QPSK       | 1       | 24        | 23.06       | 23.11          | 23.02        |                     |
| 5                                                                 | QPSK       | 12      | 0         | 22.09       | 22.09          | 22.04        | 23                  |
| 5                                                                 | QPSK       | 12      | 7         | 22.05       | 22.07          | 21.98        |                     |
| 5                                                                 | QPSK       | 12      | 13        | 21.97       | 22.08          | 22.04        |                     |
| 5                                                                 | QPSK       | 25      | 0         | 22.06       | 22.09          | 22.11        | 23                  |
| 5                                                                 | 16QAM      | 1       | 0         | 22.43       | 22.46          | 22.28        |                     |
| 5                                                                 | 16QAM      | 1       | 12        | 22.22       | 22.34          | 22.34        |                     |
| 5                                                                 | 16QAM      | 1       | 24        | 22.35       | 22.40          | 22.37        | 22                  |
| 5                                                                 | 16QAM      | 12      | 0         | 21.21       | 21.30          | 21.22        |                     |
| 5                                                                 | 16QAM      | 12      | 7         | 21.15       | 21.29          | 21.25        |                     |
| 5                                                                 | 16QAM      | 12      | 13        | 21.09       | 21.22          | 21.14        | 23                  |
| 5                                                                 | 16QAM      | 25      | 0         | 21.18       | 21.23          | 21.11        |                     |
| 5                                                                 | 64QAM      | 1       | 0         | 22.36       | 22.43          | 22.37        |                     |
| 5                                                                 | 64QAM      | 1       | 12        | 22.32       | 22.38          | 22.36        | 22                  |
| 5                                                                 | 64QAM      | 1       | 24        | 22.32       | 22.37          | 22.22        |                     |
| 5                                                                 | 64QAM      | 12      | 0         | 21.15       | 21.18          | 21.11        |                     |
| 5                                                                 | 64QAM      | 12      | 7         | 21.26       | 21.20          | 21.16        | 22                  |
| 5                                                                 | 64QAM      | 12      | 13        | 21.09       | 21.21          | 21.14        |                     |
| 5                                                                 | 64QAM      | 25      | 0         | 21.22       | 21.22          | 21.16        |                     |

| 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         | 23.22       | 23.28          | 23.24        | 24                  |
| 20              | QPSK       | 1       | 49        | 23.08       | 23.18          | 23.17        |                     |
| 20              | QPSK       | 1       | 99        | 23.13       | 23.20          | 23.13        |                     |
| 20              | QPSK       | 50      | 0         | 22.04       | 22.08          | 22.03        | 23                  |
| 20              | QPSK       | 50      | 24        | 22.03       | 22.04          | 22.00        |                     |
| 20              | QPSK       | 50      | 50        | 22.01       | 22.03          | 21.96        |                     |
| 20              | QPSK       | 100     | 0         | 21.96       | 22.06          | 21.98        | 23                  |
| 20              | 16QAM      | 1       | 0         | 22.21       | 22.25          | 22.18        |                     |
| 20              | 16QAM      | 1       | 49        | 22.16       | 22.22          | 22.20        |                     |
| 20              | 16QAM      | 1       | 99        | 22.22       | 22.25          | 22.18        | 22                  |
| 20              | 16QAM      | 50      | 0         | 21.14       | 21.16          | 21.10        |                     |
| 20              | 16QAM      | 50      | 24        | 21.07       | 21.13          | 21.11        |                     |
| 20              | 16QAM      | 50      | 50        | 21.01       | 21.11          | 21.10        | 23                  |
| 20              | 16QAM      | 100     | 0         | 21.01       | 21.09          | 21.04        |                     |
| 20              | 64QAM      | 1       | 0         | 22.08       | 22.10          | 22.00        |                     |
| 20              | 64QAM      | 1       | 49        | 21.98       | 22.05          | 22.00        | 22                  |
| 20              | 64QAM      | 1       | 99        | 22.04       | 22.09          | 22.04        |                     |
| 20              | 64QAM      | 50      | 0         | 21.02       | 21.03          | 20.97        |                     |
| 20              | 64QAM      | 50      | 24        | 21.06       | 21.09          | 21.03        | 22                  |
| 20              | 64QAM      | 50      | 50        | 21.05       | 21.12          | 21.02        |                     |
| 20              | 64QAM      | 100     | 0         | 20.99       | 21.08          | 21.05        |                     |
| Channel         |            |         |           | 132047      | 132322         | 132597       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5      | 1745           | 1772.5       |                     |
| 15              | QPSK       | 1       | 0         | 23.14       | 23.25          | 23.20        | 24                  |
| 15              | QPSK       | 1       | 37        | 23.01       | 23.09          | 23.14        |                     |
| 15              | QPSK       | 1       | 74        | 23.08       | 23.10          | 23.10        |                     |
| 15              | QPSK       | 36      | 0         | 21.96       | 22.01          | 21.98        | 23                  |
| 15              | QPSK       | 36      | 20        | 21.94       | 22.01          | 21.95        |                     |
| 15              | QPSK       | 36      | 39        | 21.95       | 21.93          | 21.88        |                     |
| 15              | QPSK       | 75      | 0         | 21.94       | 21.99          | 21.94        | 23                  |
| 15              | 16QAM      | 1       | 0         | 22.19       | 22.19          | 22.12        |                     |
| 15              | 16QAM      | 1       | 37        | 22.11       | 22.16          | 22.19        |                     |
| 15              | 16QAM      | 1       | 74        | 22.14       | 22.15          | 22.16        | 22                  |
| 15              | 16QAM      | 36      | 0         | 21.09       | 21.09          | 21.02        |                     |
| 15              | 16QAM      | 36      | 20        | 21.05       | 21.06          | 21.08        |                     |
| 15              | 16QAM      | 36      | 39        | 20.92       | 21.06          | 21.03        | 23                  |
| 15              | 16QAM      | 75      | 0         | 21.00       | 21.00          | 20.96        |                     |
| 15              | 64QAM      | 1       | 0         | 22.04       | 22.06          | 21.99        |                     |
| 15              | 64QAM      | 1       | 37        | 21.94       | 22.01          | 21.92        | 22                  |
| 15              | 64QAM      | 1       | 74        | 21.98       | 22.04          | 21.99        |                     |
| 15              | 64QAM      | 36      | 0         | 20.93       | 20.99          | 20.96        |                     |
| 15              | 64QAM      | 36      | 20        | 20.99       | 21.07          | 21.00        | 22                  |
| 15              | 64QAM      | 36      | 39        | 21.02       | 21.11          | 20.93        |                     |
| 15              | 64QAM      | 75      | 0         | 20.94       | 21.00          | 20.99        |                     |
| Channel         |            |         |           | 132022      | 132322         | 132622       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715        | 1745           | 1775         |                     |
| 10              | QPSK       | 1       | 0         | 23.18       | 23.24          | 23.23        | 24                  |
| 10              | QPSK       | 1       | 25        | 23.04       | 23.11          | 23.14        |                     |
| 10              | QPSK       | 1       | 49        | 23.11       | 23.19          | 23.04        |                     |
| 10              | QPSK       | 25      | 0         | 22.01       | 22.02          | 21.95        | 23                  |
| 10              | QPSK       | 25      | 12        | 21.97       | 21.94          | 21.99        |                     |
| 10              | QPSK       | 25      | 25        | 21.94       | 21.93          | 21.94        |                     |
| 10              | QPSK       | 50      | 0         | 21.91       | 22.02          | 21.90        | 23                  |
| 10              | 16QAM      | 1       | 0         | 22.19       | 22.23          | 22.10        |                     |
| 10              | 16QAM      | 1       | 25        | 22.14       | 22.13          | 22.15        |                     |
| 10              | 16QAM      | 1       | 49        | 22.16       | 22.22          | 22.15        | 22                  |
| 10              | 16QAM      | 25      | 0         | 21.09       | 21.11          | 21.06        |                     |
| 10              | 16QAM      | 25      | 12        | 21.03       | 21.03          | 21.06        |                     |
| 10              | 16QAM      | 25      | 25        | 20.94       | 21.06          | 21.05        | 23                  |
| 10              | 16QAM      | 50      | 0         | 21.00       | 21.08          | 20.94        |                     |
| 10              | 64QAM      | 1       | 0         | 22.02       | 22.01          | 21.90        |                     |
| 10              | 64QAM      | 1       | 25        | 21.93       | 22.02          | 21.95        | 22                  |
| 10              | 64QAM      | 1       | 49        | 22.00       | 22.06          | 22.01        |                     |
| 10              | 64QAM      | 25      | 0         | 20.92       | 20.99          | 20.91        |                     |
| 10              | 64QAM      | 25      | 12        | 21.02       | 21.00          | 20.96        | 22                  |
| 10              | 64QAM      | 25      | 25        | 20.98       | 21.11          | 20.98        |                     |
| 10              | 64QAM      | 50      | 0         | 20.95       | 20.98          | 21.01        |                     |
| Channel         |            |         |           | 131997      | 132322         | 132647       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5      | 1745           | 1777.5       |                     |
| 5               | QPSK       | 1       | 0         | 23.12       | 23.26          | 23.20        | 24                  |
| 5               | QPSK       | 1       | 12        | 23.06       | 23.08          | 23.08        |                     |
| 5               | QPSK       | 1       | 24        | 23.12       | 23.18          | 23.04        |                     |
| 5               | QPSK       | 12      | 0         | 21.96       | 22.01          | 21.95        | 23                  |
| 5               | QPSK       | 12      | 7         | 22.00       | 21.96          | 21.93        |                     |
| 5               | QPSK       | 12      | 13        | 21.92       | 21.94          | 21.87        |                     |
| 5               | QPSK       | 25      | 0         | 21.90       | 21.97          | 21.90        | 23                  |
| 5               | 16QAM      | 1       | 0         | 22.12       | 22.22          | 22.12        |                     |
| 5               | 16QAM      | 1       | 12        | 22.11       | 22.12          | 22.16        |                     |
| 5               | 16QAM      | 1       | 24        | 22.21       | 22.17          | 22.14        | 22                  |
| 5               | 16QAM      | 12      | 0         | 21.04       | 21.10          | 21.00        |                     |
| 5               | 16QAM      | 12      | 7         | 21.02       | 21.03          | 21.01        |                     |
| 5               | 16QAM      | 12      | 13        | 20.95       | 21.07          | 21.00        | 23                  |
| 5               | 16QAM      | 25      | 0         | 21.00       | 21.03          | 20.97        |                     |
| 5               | 64QAM      | 1       | 0         | 22.04       | 22.02          | 21.96        |                     |
| 5               | 64QAM      | 1       | 12        | 21.91       | 22.04          | 21.96        | 22                  |
| 5               | 64QAM      | 1       | 24        | 21.95       | 22.04          | 22.03        |                     |
| 5               | 64QAM      | 12      | 0         | 20.96       | 20.94          | 20.92        |                     |
| 5               | 64QAM      | 12      | 7         | 21.03       | 21.03          | 21.02        | 22                  |
| 5               | 64QAM      | 12      | 13        | 20.99       | 21.11          | 20.96        |                     |
| 5               | 64QAM      | 25      | 0         | 20.97       | 21.03          | 21.03        |                     |
| Channel         |            |         |           | 131987      | 132322         | 132657       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5      | 1745           | 1778.5       |                     |
| 3               | QPSK       | 1       | 0         | 23.12       | 23.26          | 23.14        | 24                  |
| 3               | QPSK       | 1       | 8         | 22.99       | 23.13          | 23.12        |                     |
| 3               | QPSK       | 1       | 14        | 23.10       | 23.16          | 23.07        |                     |
| 3               | QPSK       | 8       | 0         | 21.97       | 22.06          | 21.95        | 23                  |
| 3               | QPSK       | 8       | 4         | 22.00       | 21.94          | 21.99        |                     |
| 3               | QPSK       | 8       | 7         | 21.97       | 22.01          | 21.90        |                     |



## REPORT No.: SZ24020168S01

|                 |       |    |    |        |        |        |                        |
|-----------------|-------|----|----|--------|--------|--------|------------------------|
| 3               | QPSK  | 15 | 0  | 21.93  | 22.02  | 21.89  | 23                     |
| 3               | 16QAM | 1  | 0  | 22.17  | 22.19  | 22.12  |                        |
| 3               | 16QAM | 1  | 8  | 22.07  | 22.15  | 22.13  |                        |
| 3               | 16QAM | 1  | 14 | 22.15  | 22.24  | 22.17  |                        |
| 3               | 16QAM | 8  | 0  | 21.07  | 21.09  | 21.07  | 22                     |
| 3               | 16QAM | 8  | 4  | 21.00  | 21.03  | 21.02  |                        |
| 3               | 16QAM | 8  | 7  | 20.92  | 21.03  | 21.01  |                        |
| 3               | 16QAM | 15 | 0  | 20.97  | 21.00  | 21.02  |                        |
| 3               | 64QAM | 1  | 0  | 21.99  | 22.00  | 21.90  | 23                     |
| 3               | 64QAM | 1  | 8  | 21.93  | 21.98  | 21.91  |                        |
| 3               | 64QAM | 1  | 14 | 22.01  | 22.01  | 22.00  |                        |
| 3               | 64QAM | 8  | 0  | 21.01  | 20.98  | 20.88  |                        |
| 3               | 64QAM | 8  | 4  | 20.97  | 21.07  | 21.01  | 22                     |
| 3               | 64QAM | 8  | 7  | 20.96  | 21.06  | 21.00  |                        |
| 3               | 64QAM | 15 | 0  | 20.91  | 21.00  | 21.04  |                        |
| Channel         |       |    |    | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |       |    |    | 1710.7 | 1745   | 1779.3 |                        |
| 1.4             | QPSK  | 1  | 0  | 23.17  | 23.19  | 23.22  | 24                     |
| 1.4             | QPSK  | 1  | 3  | 23.05  | 23.13  | 23.14  |                        |
| 1.4             | QPSK  | 1  | 5  | 23.07  | 23.10  | 23.12  |                        |
| 1.4             | QPSK  | 3  | 0  | 23.03  | 23.01  | 22.99  |                        |
| 1.4             | QPSK  | 3  | 1  | 22.95  | 22.94  | 22.95  |                        |
| 1.4             | QPSK  | 3  | 3  | 22.92  | 22.99  | 22.88  |                        |
| 1.4             | QPSK  | 6  | 0  | 21.95  | 22.04  | 21.90  | 23                     |
| 1.4             | 16QAM | 1  | 0  | 22.11  | 22.19  | 22.12  | 23                     |
| 1.4             | 16QAM | 1  | 3  | 22.15  | 22.18  | 22.10  |                        |
| 1.4             | 16QAM | 1  | 5  | 22.13  | 22.19  | 22.15  |                        |
| 1.4             | 16QAM | 3  | 0  | 22.09  | 22.13  | 22.00  |                        |
| 1.4             | 16QAM | 3  | 1  | 21.99  | 22.09  | 22.09  |                        |
| 1.4             | 16QAM | 3  | 3  | 21.92  | 22.01  | 22.03  |                        |
| 1.4             | 16QAM | 6  | 0  | 21.05  | 21.08  | 21.02  | 22                     |
| 1.4             | 64QAM | 1  | 0  | 21.99  | 22.00  | 21.98  | 23                     |
| 1.4             | 64QAM | 1  | 3  | 21.92  | 21.98  | 21.91  |                        |
| 1.4             | 64QAM | 1  | 5  | 22.03  | 21.99  | 22.03  |                        |
| 1.4             | 64QAM | 3  | 0  | 21.92  | 22.01  | 21.90  |                        |
| 1.4             | 64QAM | 3  | 1  | 21.99  | 22.03  | 21.95  |                        |
| 1.4             | 64QAM | 3  | 3  | 21.97  | 22.02  | 22.01  |                        |
| 1.4             | 64QAM | 6  | 0  | 20.93  | 21.04  | 21.01  | 22                     |

| 2CC LTE Downlink |                  |       |      |          |            |               |                                |      |          |            |               |             |                |
|------------------|------------------|-------|------|----------|------------|---------------|--------------------------------|------|----------|------------|---------------|-------------|----------------|
| Configure        | CA Configuration | Ant   | PCC  |          |            |               |                                | SCC  |          |            |               | Power       |                |
|                  |                  |       | Band | BW (MHz) | UL Channel | UL Fre. (MHz) | UL Mode (Modulation/RB/Offset) | Band | BW (MHz) | DL Channel | DL Fre. (MHz) | CA TX (dBm) | Rel.8 TX (dBm) |
| Intra-band       | CA_2A-2A         | Ant 8 | 2    | 20       | 19100      | 1900          | QPSK/1#0                       | 2    | 5        | 1175       | 1987.5        | 22.62       | 23.18          |
|                  | CA_2C            | Ant 8 | 2    | 20       | 18801      | 1870.1        | QPSK/1#0                       | 2    | 20       | 999        | 1889.9        | 22.65       | 23.18          |
|                  | CA_2A-4A         | Ant 2 | 2    | 20       | 19100      | 1900          | QPSK/1#0                       | 4    | 20       | 2175       | 2132.5        | 22.6        | 23.18          |
|                  | CA_2A-66A        | Ant 8 | 2    | 20       | 18700      | 1860          | QPSK/1#0                       | 66   | 20       | 66536      | 1720          | 22.58       | 23.18          |
|                  | CA_2A-5A         | Ant 8 | 2    | 20       | 18700      | 1860          | QPSK/1#0                       | 5    | 10       | 20600      | 844           | 22.57       | 23.18          |
|                  | CA_2A-12A        | Ant 2 | 2    | 20       | 19100      | 1900          | QPSK/1#0                       | 12   | 10       | 23060      | 704           | 22.82       | 23.22          |
|                  | CA_4A-4A         | Ant 8 | 4    | 20       | 20050      | 1720          | QPSK/1#0                       | 4    | 20       | 20300      | 1745          | 22.84       | 23.22          |
|                  | CA_4A-5A         | Ant 8 | 4    | 20       | 20175      | 1732.5        | QPSK/1#0                       | 5    | 20       | 20525      | 836.5         | 22.81       | 23.22          |
|                  | CA_4A-12A        | Ant 2 | 2    | 20       | 20175      | 1732.5        | QPSK/1#0                       | 12   | 10       | 23060      | 704           | 22.8        | 23.22          |
|                  | CA_5A-5A         | Ant 8 | 5    | 10       | 20450      | 829           | QPSK/1#0                       | 5    | 10       | 20600      | 844.0         | 22.59       | 23.13          |
|                  | CA_5B            | Ant 8 | 5    | 10       | 20476      | 831.6         | QPSK/1#0                       | 5    | 10       | 20575      | 841.5         | 22.57       | 23.13          |
|                  | CA_5A-66A        | Ant 2 | 5    | 10       | 20450      | 829           | QPSK/1#0                       | 66   | 20       | 66536      | 1720          | 22.62       | 23.13          |
|                  | CA_12A-66A       | Ant 8 | 12   | 10       | 23060      | 704           | QPSK/1#0                       | 66   | 20       | 66536      | 1720          | 22.76       | 23.13          |
|                  | CA_66C           | Ant 8 | 66   | 20       | 132323     | 1745.1        | QPSK/1#0                       | 66   | 20       | 67236      | 2190          | 22.85       | 23.28          |
|                  | CA_66B           | Ant 2 | 66   | 10       | 132373     | 1750.1        | QPSK/1#0                       | 66   | 10       | 67286      | 2195          | 22.81       | 23.28          |
|                  | CA_66A-66A       | Ant 8 | 66   | 20       | 132072     | 1720          | QPSK/1#0                       | 66   | 20       | 67236      | 2190          | 22.83       | 23.28          |



## 2.4GHz WLAN ANT 1

|                   | Mode              | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|-------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 2.4GHz WLAN ANT 1 | 802.11b 1Mbps     | CH 1    | 2412            | 9.27                | 10.00         | 13.00         | 99.41        |
|                   |                   | CH 6    | 2437            | 8.68                | 9.50          | 13.00         |              |
|                   |                   | CH 11   | 2462            | 9.60                | 10.50         | 13.00         |              |
|                   | 802.11g 6Mbps     | CH 1    | 2412            | 17.76               | 18.50         | 18.00         | 98.35        |
|                   |                   | CH 6    | 2437            | 17.03               | 18.00         | 18.00         |              |
|                   |                   | CH 11   | 2462            | 17.61               | 18.50         | 18.00         |              |
|                   | 802.11n-HT20 MCS0 | CH 1    | 2412            | 17.52               | 18.50         | 18.00         | 98.23        |
|                   |                   | CH 6    | 2437            | 16.89               | 18.00         | 18.00         |              |
|                   |                   | CH 11   | 2462            | 17.41               | 18.50         | 18.00         |              |
|                   | 802.11n-HT40 MCS0 | CH 3    | 2422            | 13.57               | 14.50         | 14.00         | 94.89        |
|                   |                   | CH 6    | 2437            | 16.83               | 17.50         | 17.00         |              |
|                   |                   | CH 9    | 2452            | 13.78               | 14.50         | 14.00         |              |

## 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.2GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 36   | 5180            | 16.96               | 18.00         | 18.00         | 98.54        |
|                   |                     | CH 44   | 5220            | 16.93               | 18.00         | 18.00         |              |
|                   |                     | CH 48   | 5340            | 16.60               | 17.50         | 18.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 36   | 5180            | 16.29               | 17.00         | 17.50         | 98.44        |
|                   |                     | CH 44   | 5220            | 16.34               | 17.00         | 17.50         |              |
|                   |                     | CH 48   | 5240            | 15.87               | 16.50         | 17.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 38   | 5190            | 16.72               | 17.50         | 17.50         | 96.87        |
|                   |                     | CH 46   | 5230            | 16.59               | 17.50         | 17.50         |              |
|                   |                     | CH 36   | 5180            | 16.64               | 17.50         | 18.00         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 44   | 5220            | 16.71               | 17.50         | 18.00         | 98.45        |
|                   |                     | CH 48   | 5240            | 16.33               | 17.50         | 18.00         |              |
|                   |                     | CH 38   | 5190            | 16.67               | 17.50         | 17.50         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 46   | 5230            | 16.54               | 17.50         | 17.50         | 96.91        |
|                   |                     | CH 42   | 5210            | 16.58               | 17.50         | 17.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 42   | 5210            | 16.58               | 17.50         | 17.50         | 93.88        |

## 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.3GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 52   | 5260            | 16.69               | 17.50         | 18.00         | 98.54        |
|                   |                     | CH 60   | 5300            | 16.56               | 17.50         | 18.00         |              |
|                   |                     | CH 64   | 5320            | 16.15               | 17.00         | 18.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 52   | 5260            | 16.13               | 17.00         | 17.50         | 98.44        |
|                   |                     | CH 60   | 5300            | 15.92               | 17.00         | 17.50         |              |
|                   |                     | CH 64   | 5320            | 15.52               | 16.50         | 17.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 54   | 5270            | 16.31               | 17.00         | 17.50         | 95.88        |
|                   |                     | CH 62   | 5310            | 16.13               | 17.00         | 17.50         |              |
|                   |                     | CH 52   | 5260            | 16.49               | 17.50         | 18.00         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 60   | 5300            | 16.35               | 17.00         | 18.00         | 98.45        |
|                   |                     | CH 64   | 5320            | 15.95               | 17.00         | 18.00         |              |
|                   |                     | CH 54   | 5270            | 16.26               | 17.00         | 17.50         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 62   | 5310            | 16.15               | 17.00         | 17.50         | 96.91        |
|                   |                     | CH 58   | 5290            | 16.17               | 17.00         | 17.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 58   | 5290            | 16.17               | 17.00         | 17.50         | 93.88        |

## 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.5GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 100  | 5500            | 17.13               | 18.00         | 18.00         | 98.54        |
|                   |                     | CH 120  | 5600            | 17.76               | 18.50         | 18.00         |              |
|                   |                     | CH 144  | 5720            | 17.29               | 18.00         | 18.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 100  | 5500            | 16.63               | 17.50         | 17.50         | 97.93        |
|                   |                     | CH 120  | 5600            | 17.07               | 18.00         | 17.50         |              |
|                   |                     | CH 144  | 5720            | 16.69               | 17.50         | 17.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 102  | 5510            | 16.98               | 18.00         | 17.50         | 95.88        |
|                   |                     | CH 126  | 5630            | 17.50               | 18.50         | 17.50         |              |
|                   |                     | CH 142  | 5710            | 17.10               | 18.00         | 17.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 100  | 5500            | 16.89               | 17.50         | 18.00         | 98.45        |
|                   |                     | CH 120  | 5600            | 17.49               | 18.50         | 18.00         |              |
|                   |                     | CH 144  | 5720            | 17.10               | 18.00         | 18.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 102  | 5510            | 17.11               | 18.00         | 17.50         | 96.91        |
|                   |                     | CH 126  | 5630            | 17.03               | 18.00         | 17.50         |              |
|                   |                     | CH 142  | 5710            | 16.79               | 17.50         | 17.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 106  | 5530            | 16.84               | 17.50         | 17.50         | 92.00        |
|                   |                     | CH 122  | 5610            | 17.37               | 18.00         | 17.50         |              |
|                   |                     | CH 138  | 5690            | 17.07               | 18.00         | 17.50         |              |

## 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.8GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 149  | 5745            | 17.14               | 18.00         | 18.00         | 98.07        |
|                   |                     | CH 157  | 5785            | 17.13               | 18.00         | 18.00         |              |
|                   |                     | CH 165  | 5825            | 17.21               | 18.00         | 18.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 149  | 5745            | 16.49               | 17.50         | 17.50         | 98.44        |
|                   |                     | CH 157  | 5785            | 16.45               | 17.50         | 17.50         |              |
|                   |                     | CH 165  | 5825            | 16.53               | 17.50         | 17.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 151  | 5755            | 17.03               | 18.00         | 17.50         | 96.88        |
|                   |                     | CH 159  | 5795            | 16.81               | 17.50         | 17.50         |              |
|                   |                     | CH 149  | 5745            | 16.97               | 18.00         | 18.00         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 157  | 5785            | 16.93               | 18.00         | 18.00         | 97.94        |
|                   |                     | CH 165  | 5825            | 17.05               | 18.00         | 18.00         |              |
|                   |                     | CH 151  | 5755            | 16.58               | 17.50         | 17.50         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 159  | 5795            | 16.17               | 17.00         | 17.50         | 96.91        |
|                   |                     | CH 155  | 5775            | 16.70               | 17.50         | 17.50         |              |

| Mode          | Channel | Frequency (MHz) | 1Mbps<br>Average power (dBm)<br>Tune-up Limit | 2Mbps<br>Average power (dBm)<br>Tune-up Limit | 3Mbps<br>Average power (dBm)<br>Tune-up Limit |
|---------------|---------|-----------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| BR / EDR      | CH 00   | 2402            | 7.82                                          | 9.00                                          | 4.71                                          |
|               | CH 39   | 2441            | 6.81                                          | 8.00                                          | 3.39                                          |
|               | CH 76   | 2480            | 7.76                                          | 9.00                                          | 4.28                                          |
| Power Setting |         |                 | 8                                             | 8                                             | 8                                             |
| Duty Cycle %  |         |                 | 77.34                                         | 77.25                                         | 77.08                                         |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |
|---------------|---------|-----------------|---------------------|
| LE            | CH 00   | 2402            | 8.40                |
|               | CH 19   | 2440            | 5.17                |
|               | CH 39   | 2480            | 6.03                |
| Tune-up Limit |         |                 | 7                   |
| Power Setting |         |                 | Default             |
| Duty Cycle %  |         |                 | 62.9                |



## Reduced Power Level 1

| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Ch<br>Delta<br>> 0.5 |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|----------------------|
|                 | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |                      |
| TX Channel      | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |                      |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |                      |
| GSM 1 Tx slot   | 27.52                     | 27.55 | 27.47  | 28.00                     | 18.52                     | 18.55 | 18.47  | 19.00                     | 0.10                 |
| GPRS 1 Tx slot  | 27.54                     | 27.57 | 27.49  | 28.00                     | 18.54                     | 18.57 | 18.49  | 19.00                     |                      |
| GPRS 2 Tx slots | 26.04                     | 26.05 | 25.98  | 26.50                     | 20.04                     | 20.05 | 19.98  | 20.50                     | 0.07                 |
| GPRS 3 Tx slots | 23.87                     | 23.94 | 23.81  | 25.00                     | 19.61                     | 19.68 | 19.55  | 20.74                     | 0.13                 |
| GPRS 4 Tx slots | 22.63                     | 22.68 | 22.57  | 23.50                     | 19.63                     | 19.68 | 19.57  | 20.50                     | 0.11                 |
| EDGE 1 Tx slot  | 23.62                     | 23.53 | 23.40  | 24.50                     | 14.62                     | 14.53 | 14.40  | 15.50                     | 0.22                 |
| EDGE 2 Tx slots | 21.68                     | 21.54 | 21.38  | 22.00                     | 15.68                     | 15.54 | 15.38  | 16.00                     | 0.30                 |
| EDGE 3 Tx slots | 20.28                     | 20.21 | 20.02  | 21.50                     | 16.02                     | 15.95 | 15.76  | 17.24                     | 0.26                 |
| EDGE 4 Tx slots | 19.04                     | 19.01 | 18.95  | 20.50                     | 16.04                     | 16.01 | 15.95  | 17.50                     | 0.09                 |
| Mode            |                           | Max.  | 27.57  |                           |                           | Max.  | 20.05  |                           |                      |
| Attenuator      | Cable Loss : 0.8          |       |        |                           |                           |       |        |                           |                      |

| 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            | 20.02               | 19.94 | 19.98  | 20.70                     | 19.43               | 19.50  | 19.47  | 20.20                     | 21.52              | 21.54 | 21.48 | 22.70                     |
| 3GPP Rel 5      | HSDPA Subtest-1         | 18.80               | 18.67 | 18.71  | 19.50                     | 18.14               | 18.26  | 18.20  | 19.00                     | 20.67              | 20.57 | 20.58 | 21.50                     |
| 3GPP Rel 5      | HSDPA Subtest-2         | 18.74               | 18.58 | 18.60  | 19.50                     | 18.41               | 18.32  | 18.15  | 19.00                     | 20.84              | 20.69 | 20.71 | 21.50                     |
| 3GPP Rel 5      | HSDPA Subtest-3         | 18.25               | 18.06 | 17.96  | 19.00                     | 17.62               | 17.68  | 17.51  | 18.50                     | 20.34              | 20.19 | 20.25 | 21.00                     |
| 3GPP Rel 5      | HSDPA Subtest-4         | 18.22               | 18.05 | 18.01  | 19.00                     | 17.64               | 17.72  | 17.50  | 18.50                     | 20.28              | 20.24 | 20.22 | 21.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 18.63               | 18.54 | 18.55  | 19.50                     | 17.85               | 18.05  | 18.05  | 19.00                     | 20.52              | 20.46 | 20.39 | 21.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 18.61               | 18.56 | 18.61  | 19.50                     | 17.91               | 18.12  | 18.05  | 19.00                     | 20.53              | 20.45 | 20.34 | 21.50                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 18.16               | 18.09 | 18.11  | 19.00                     | 17.50               | 17.52  | 17.63  | 18.50                     | 20.04              | 19.92 | 19.83 | 21.00                     |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 18.17               | 18.06 | 18.10  | 19.00                     | 17.60               | 17.59  | 17.52  | 18.50                     | 20.03              | 19.92 | 19.87 | 21.00                     |
| 3GPP Rel 6      | HSUPA Subtest-1         | 18.87               | 18.66 | 18.49  | 19.50                     | 18.09               | 18.27  | 17.94  | 19.00                     | 20.42              | 20.43 | 20.59 | 21.50                     |
| 3GPP Rel 6      | HSUPA Subtest-2         | 18.35               | 18.19 | 18.18  | 19.50                     | 17.72               | 17.96  | 17.95  | 19.00                     | 19.87              | 20.07 | 19.94 | 21.00                     |
| 3GPP Rel 6      | HSUPA Subtest-3         | 18.77               | 18.68 | 18.36  | 19.50                     | 18.15               | 18.37  | 18.10  | 19.00                     | 20.57              | 20.34 | 20.51 | 21.50                     |
| 3GPP Rel 6      | HSUPA Subtest-4         | 18.80               | 18.65 | 18.74  | 19.50                     | 18.14               | 18.15  | 18.14  | 19.00                     | 20.33              | 20.33 | 20.32 | 21.50                     |
| 3GPP Rel 6      | HSUPA Subtest-5         | 18.85               | 18.64 | 18.55  | 19.50                     | 18.07               | 18.04  | 17.89  | 19.00                     | 20.58              | 20.28 | 20.35 | 21.50                     |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 18.93               | 18.83 | 18.48  | 19.50                     | 18.15               | 18.13  | 17.96  | 19.00                     | 20.64              | 20.57 | 20.32 | 21.50                     |
| Attenuator      |                         | Cable Loss          |       |        | 0.8                       | Cable Loss          |        |        | 0.8                       | Cable Loss         |       |       | 0.6                       |
| Mode            |                         |                     | Max.  | 20.02  |                           |                     | Max.   | 19.50  |                           |                    | Max.  | 21.54 |                           |



| Band 2 (1900MHz Band) (dBm) |            |         |           |             |                |              |                     |
|-----------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| 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         | 18.93       | 19.18          | 19.02        |                     |
| 20                          | QPSK       | 1       | 49        | 18.91       | 18.98          | 18.79        | 20                  |
| 20                          | QPSK       | 1       | 99        | 18.75       | 18.91          | 18.77        |                     |
| 20                          | QPSK       | 50      | 0         | 18.02       | 18.05          | 18.03        |                     |
| 20                          | QPSK       | 50      | 24        | 18.00       | 18.04          | 17.91        | 19                  |
| 20                          | QPSK       | 50      | 50        | 17.96       | 18.01          | 17.96        |                     |
| 20                          | QPSK       | 100     | 0         | 17.93       | 18.03          | 17.90        |                     |
| 20                          | 16QAM      | 1       | 0         | 18.19       | 18.28          | 18.12        | 19                  |
| 20                          | 16QAM      | 1       | 49        | 18.13       | 18.19          | 18.18        |                     |
| 20                          | 16QAM      | 1       | 99        | 18.02       | 18.04          | 17.96        |                     |
| 20                          | 16QAM      | 50      | 0         | 17.04       | 17.12          | 17.07        | 18                  |
| 20                          | 16QAM      | 50      | 24        | 17.01       | 17.10          | 17.05        |                     |
| 20                          | 16QAM      | 50      | 50        | 16.88       | 16.95          | 16.87        |                     |
| 20                          | 16QAM      | 100     | 0         | 16.99       | 17.11          | 16.96        | 19                  |
| 20                          | 64QAM      | 1       | 0         | 18.04       | 18.16          | 18.05        |                     |
| 20                          | 64QAM      | 1       | 49        | 17.89       | 18.06          | 17.97        |                     |
| 20                          | 64QAM      | 1       | 99        | 17.99       | 18.00          | 17.85        | 18                  |
| 20                          | 64QAM      | 50      | 0         | 17.00       | 17.09          | 16.97        |                     |
| 20                          | 64QAM      | 50      | 24        | 16.97       | 17.07          | 16.90        |                     |
| 20                          | 64QAM      | 50      | 50        | 16.75       | 16.95          | 16.91        | 18                  |
| 20                          | 64QAM      | 100     | 0         | 16.83       | 17.02          | 16.85        |                     |
| Channel                     |            |         |           | 18675       | 18900          | 19125        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1857.5      | 1880           | 1902.5       |                     |
| 15                          | QPSK       | 1       | 0         | 19.21       | 19.34          | 19.31        |                     |
| 15                          | QPSK       | 1       | 37        | 19.24       | 19.30          | 19.12        | 20                  |
| 15                          | QPSK       | 1       | 74        | 19.05       | 19.26          | 19.06        |                     |
| 15                          | QPSK       | 36      | 0         | 18.30       | 18.36          | 18.34        |                     |
| 15                          | QPSK       | 36      | 20        | 18.29       | 18.41          | 18.27        | 19                  |
| 15                          | QPSK       | 36      | 39        | 18.33       | 18.34          | 18.26        |                     |
| 15                          | QPSK       | 75      | 0         | 18.28       | 18.36          | 18.23        |                     |
| 15                          | 16QAM      | 1       | 0         | 18.26       | 18.34          | 18.21        | 19                  |
| 15                          | 16QAM      | 1       | 37        | 18.23       | 18.31          | 18.29        |                     |
| 15                          | 16QAM      | 1       | 74        | 18.15       | 18.15          | 18.03        |                     |
| 15                          | 16QAM      | 36      | 0         | 17.10       | 17.26          | 17.20        | 18                  |
| 15                          | 16QAM      | 36      | 20        | 17.11       | 17.25          | 17.11        |                     |
| 15                          | 16QAM      | 36      | 39        | 16.99       | 17.05          | 16.97        |                     |
| 15                          | 16QAM      | 75      | 0         | 17.06       | 17.18          | 17.07        | 19                  |
| 15                          | 64QAM      | 1       | 0         | 18.10       | 18.29          | 18.19        |                     |
| 15                          | 64QAM      | 1       | 37        | 18.00       | 18.22          | 18.09        |                     |
| 15                          | 64QAM      | 1       | 74        | 18.13       | 18.08          | 17.99        | 18                  |
| 15                          | 64QAM      | 36      | 0         | 17.09       | 17.18          | 17.06        |                     |
| 15                          | 64QAM      | 36      | 20        | 17.07       | 17.16          | 16.98        |                     |
| 15                          | 64QAM      | 36      | 39        | 16.85       | 17.06          | 16.98        | 18                  |
| 15                          | 64QAM      | 75      | 0         | 16.94       | 17.10          | 16.96        |                     |
| Channel                     |            |         |           | 18650       | 18900          | 19150        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1855        | 1880           | 1905         |                     |
| 10                          | QPSK       | 1       | 0         | 19.30       | 19.35          | 19.32        |                     |
| 10                          | QPSK       | 1       | 25        | 19.20       | 19.29          | 19.11        | 20                  |
| 10                          | QPSK       | 1       | 49        | 19.05       | 19.22          | 19.13        |                     |
| 10                          | QPSK       | 25      | 0         | 18.30       | 18.35          | 18.33        |                     |
| 10                          | QPSK       | 25      | 12        | 18.30       | 18.41          | 18.26        | 19                  |
| 10                          | QPSK       | 25      | 25        | 18.25       | 18.30          | 18.26        |                     |
| 10                          | QPSK       | 50      | 0         | 18.29       | 18.37          | 18.22        |                     |
| 10                          | 16QAM      | 1       | 0         | 18.29       | 18.38          | 18.41        | 19                  |
| 10                          | 16QAM      | 1       | 25        | 18.41       | 18.48          | 18.50        |                     |
| 10                          | 16QAM      | 1       | 49        | 18.38       | 18.37          | 18.32        |                     |
| 10                          | 16QAM      | 25      | 0         | 17.39       | 17.46          | 17.36        | 18                  |
| 10                          | 16QAM      | 25      | 12        | 17.33       | 17.46          | 17.34        |                     |
| 10                          | 16QAM      | 25      | 25        | 17.20       | 17.23          | 17.15        |                     |
| 10                          | 16QAM      | 50      | 0         | 17.36       | 17.46          | 17.31        | 19                  |
| 10                          | 64QAM      | 1       | 0         | 18.36       | 18.47          | 18.35        |                     |
| 10                          | 64QAM      | 1       | 25        | 18.24       | 18.36          | 18.31        |                     |
| 10                          | 64QAM      | 1       | 49        | 18.34       | 18.37          | 18.15        | 18                  |
| 10                          | 64QAM      | 25      | 0         | 17.30       | 17.41          | 17.34        |                     |
| 10                          | 64QAM      | 25      | 12        | 17.34       | 17.38          | 17.21        |                     |
| 10                          | 64QAM      | 25      | 25        | 17.08       | 17.28          | 17.19        | 18                  |
| 10                          | 64QAM      | 50      | 0         | 17.12       | 17.34          | 17.21        |                     |
| Channel                     |            |         |           | 18625       | 18900          | 19175        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1852.5      | 1880           | 1907.5       |                     |
| 5                           | QPSK       | 1       | 0         | 19.23       | 19.42          | 19.33        |                     |
| 5                           | QPSK       | 1       | 12        | 19.21       | 19.32          | 19.09        | 20                  |
| 5                           | QPSK       | 1       | 24        | 19.11       | 19.26          | 19.12        |                     |
| 5                           | QPSK       | 12      | 0         | 18.34       | 18.34          | 18.40        |                     |
| 5                           | QPSK       | 12      | 7         | 18.32       | 18.34          | 18.23        | 19                  |
| 5                           | QPSK       | 12      | 13        | 18.30       | 18.35          | 18.26        |                     |
| 5                           | QPSK       | 25      | 0         | 18.23       | 18.35          | 18.20        |                     |
| 5                           | 16QAM      | 1       | 0         | 18.32       | 18.36          | 18.48        | 19                  |
| 5                           | 16QAM      | 1       | 12        | 18.21       | 18.33          | 18.48        |                     |
| 5                           | 16QAM      | 1       | 24        | 18.17       | 18.13          | 18.26        |                     |
| 5                           | 16QAM      | 12      | 0         | 17.17       | 17.21          | 17.40        | 18                  |
| 5                           | 16QAM      | 12      | 7         | 17.10       | 17.22          | 17.39        |                     |
| 5                           | 16QAM      | 12      | 13        | 16.97       | 17.02          | 17.21        |                     |
| 5                           | 16QAM      | 25      | 0         | 17.10       | 17.24          | 17.28        | 19                  |
| 5                           | 64QAM      | 1       | 0         | 18.19       | 18.31          | 18.38        |                     |
| 5                           | 64QAM      | 1       | 12        | 18.23       | 18.38          | 18.28        |                     |
| 5                           | 64QAM      | 1       | 24        | 18.30       | 18.35          | 18.20        | 18                  |
| 5                           | 64QAM      | 12      | 0         | 17.30       | 17.43          | 17.28        |                     |
| 5                           | 64QAM      | 12      | 7         | 17.30       | 17.38          | 17.25        |                     |
| 5                           | 64QAM      | 12      | 13        | 17.06       | 17.28          | 17.19        | 19                  |
| 5                           | 64QAM      | 25      | 0         | 17.14       | 17.34          | 17.19        |                     |
| Channel                     |            |         |           | 18615       | 18900          | 19185        | Tune-up limit (dBm) |
| Frequency (MHz)             |            |         |           | 1851.5      | 1880           | 1908.5       |                     |
| 3                           | QPSK       | 1       | 0         | 19.27       | 19.35          | 19.38        |                     |
| 3                           | QPSK       | 1       | 8         | 19.20       | 19.31          | 19.10        | 20                  |
| 3                           | QPSK       | 1       | 14        | 19.06       | 19.25          | 19.12        |                     |
| 3                           | QPSK       | 8       | 0         | 18.36       | 18.38          | 18.35        |                     |
| 3                           | QPSK       | 8       | 4         | 18.36       | 18.40          | 18.21        | 19                  |
| 3                           | QPSK       | 8       | 7         | 18.24       | 18.38          | 18.26        |                     |

| Band 4 (AWS Band) (dBm)             |            |         |           |             |                |              |                     |
|-------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| 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         | 20.18       | 20.22          | 20.14        |                     |
| 20                                  | QPSK       | 1       | 49        | 20.02       | 20.10          | 20.03        | 21                  |
| 20                                  | QPSK       | 1       | 99        | 20.07       | 20.14          | 20.05        |                     |
| 20                                  | QPSK       | 50      | 0         | 19.10       | 19.12          | 19.09        |                     |
| 20                                  | QPSK       | 50      | 24        | 19.09       | 19.10          | 19.00        | 20                  |
| 20                                  | QPSK       | 50      | 50        | 19.00       | 19.05          | 18.95        |                     |
| 20                                  | QPSK       | 100     | 0         | 19.02       | 19.07          | 19.04        |                     |
| 20                                  | 16QAM      | 1       | 0         | 19.19       | 19.25          | 19.24        | 20                  |
| 20                                  | 16QAM      | 1       | 49        | 19.14       | 19.21          | 19.16        |                     |
| 20                                  | 16QAM      | 1       | 99        | 19.15       | 19.18          | 19.16        |                     |
| 20                                  | 16QAM      | 50      | 0         | 17.92       | 18.01          | 17.96        | 19                  |
| 20                                  | 16QAM      | 50      | 24        | 17.96       | 18.05          | 17.95        |                     |
| 20                                  | 16QAM      | 50      | 50        | 17.99       | 18.07          | 17.99        |                     |
| 20                                  | 16QAM      | 100     | 0         | 18.01       | 18.04          | 18.02        | 20                  |
| 20                                  | 64QAM      | 1       | 0         | 19.26       | 19.28          | 19.22        |                     |
| 20                                  | 64QAM      | 1       | 49        | 19.20       | 19.22          | 19.16        |                     |
| 20                                  | 64QAM      | 1       | 99        | 19.25       | 19.26          | 19.22        | 19                  |
| 20                                  | 64QAM      | 50      | 0         | 17.94       | 18.02          | 18.00        |                     |
| 20                                  | 64QAM      | 50      | 24        | 17.90       | 18.00          | 17.96        |                     |
| 20                                  | 64QAM      | 50      | 50        | 18.02       | 18.06          | 17.98        | 19                  |
| 20                                  | 64QAM      | 100     | 0         | 18.04       | 18.12          | 18.05        |                     |
| Channel                             |            |         |           | 20025       | 20175          | 20325        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1717.5      | 1732.5         | 1747.5       | 21                  |
| 15                                  | QPSK       | 1       | 0         | 20.16       | 20.15          | 20.07        |                     |
| 15                                  | QPSK       | 1       | 37        | 19.95       | 20.02          | 19.94        |                     |
| 15                                  | QPSK       | 1       | 74        | 20.02       | 20.04          | 20.02        | 20                  |
| 15                                  | QPSK       | 36      | 0         | 19.08       | 19.09          | 19.00        |                     |
| 15                                  | QPSK       | 36      | 20        | 19.02       | 19.07          | 18.94        |                     |
| 15                                  | QPSK       | 36      | 39        | 18.95       | 19.01          | 18.85        | 20                  |
| 15                                  | QPSK       | 75      | 0         | 18.95       | 19.04          | 19.00        |                     |
| 15                                  | 16QAM      | 1       | 0         | 19.17       | 19.20          | 19.15        |                     |
| 15                                  | 16QAM      | 1       | 37        | 19.07       | 19.15          | 19.07        | 20                  |
| 15                                  | 16QAM      | 1       | 74        | 19.10       | 19.11          | 19.14        |                     |
| 15                                  | 16QAM      | 36      | 0         | 17.87       | 17.99          | 17.89        |                     |
| 15                                  | 16QAM      | 36      | 20        | 17.89       | 17.97          | 17.91        | 19                  |
| 15                                  | 16QAM      | 36      | 39        | 17.96       | 17.97          | 17.95        |                     |
| 15                                  | 16QAM      | 75      | 0         | 17.99       | 17.97          | 18.00        |                     |
| 15                                  | 64QAM      | 1       | 0         | 19.22       | 19.25          | 19.17        | 20                  |
| 15                                  | 64QAM      | 1       | 37        | 19.10       | 19.18          | 19.12        |                     |
| 15                                  | 64QAM      | 1       | 74        | 19.21       | 19.25          | 19.14        |                     |
| 15                                  | 64QAM      | 36      | 0         | 17.91       | 17.94          | 17.94        | 19                  |
| 15                                  | 64QAM      | 36      | 20        | 17.84       | 17.97          | 17.86        |                     |
| 15                                  | 64QAM      | 36      | 39        | 17.97       | 17.96          | 17.92        |                     |
| 15                                  | 64QAM      | 75      | 0         | 17.95       | 18.04          | 17.99        |                     |
| Channel                             |            |         |           | 20000       | 20175          | 20350        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1715        | 1732.5         | 1750         | 21                  |
| 10                                  | QPSK       | 1       | 0         | 20.13       | 20.18          | 20.11        |                     |
| 10                                  | QPSK       | 1       | 25        | 19.94       | 20.04          | 19.93        |                     |
| 10                                  | QPSK       | 1       | 49        | 19.98       | 20.05          | 20.04        | 20                  |
| 10                                  | QPSK       | 25      | 0         | 19.07       | 19.04          | 19.01        |                     |
| 10                                  | QPSK       | 25      | 12        | 18.99       | 19.07          | 18.94        |                     |
| 10                                  | QPSK       | 25      | 25        | 18.90       | 19.03          | 18.89        | 20                  |
| 10                                  | QPSK       | 50      | 0         | 18.96       | 18.97          | 19.03        |                     |
| 10                                  | 16QAM      | 1       | 0         | 19.15       | 19.16          | 19.19        |                     |
| 10                                  | 16QAM      | 1       | 25        | 19.05       | 19.17          | 19.15        | 20                  |
| 10                                  | 16QAM      | 1       | 49        | 19.10       | 19.09          | 19.09        |                     |
| 10                                  | 16QAM      | 25      | 0         | 17.83       | 18.00          | 17.89        |                     |
| 10                                  | 16QAM      | 25      | 12        | 17.91       | 17.95          | 17.89        | 19                  |
| 10                                  | 16QAM      | 25      | 25        | 17.89       | 18.04          | 17.92        |                     |
| 10                                  | 16QAM      | 50      | 0         | 17.99       | 18.01          | 17.94        |                     |
| 10                                  | 64QAM      | 1       | 0         | 19.19       | 19.21          | 19.21        | 20                  |
| 10                                  | 64QAM      | 1       | 25        | 19.11       | 19.12          | 19.10        |                     |
| 10                                  | 64QAM      | 1       | 49        | 19.24       | 19.18          | 19.18        |                     |
| 10                                  | 64QAM      | 25      | 0         | 17.86       | 17.99          | 17.93        | 19                  |
| 10                                  | 64QAM      | 25      | 12        | 17.87       | 17.92          | 17.89        |                     |
| 10                                  | 64QAM      | 25      | 25        | 17.97       | 17.99          | 17.87        |                     |
| 10                                  | 64QAM      | 50      | 0         | 17.96       | 18.05          | 17.98        |                     |
| Channel                             |            |         |           | 19975       | 20175          | 20375        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1712.5      | 1732.5         | 1752.5       | 21                  |
| 5                                   | QPSK       | 1       | 0         | 20.11       | 20.12          | 20.06        |                     |
| 5                                   | QPSK       | 1       | 12        | 19.99       | 20.09          | 20.01        |                     |
| 5                                   | QPSK       | 1       | 24        | 19.99       | 20.10          | 19.99        | 20                  |
| 5                                   | QPSK       | 12      | 0         | 19.02       | 19.10          | 19.02        |                     |
| 5                                   | QPSK       | 12      | 7         | 19.04       | 19.05          | 18.96        |                     |
| 5                                   | QPSK       | 12      | 13        | 18.91       | 18.97          | 18.88        | 20                  |
| 5                                   | QPSK       | 25      | 0         | 18.93       | 19.00          | 19.01        |                     |
| 5                                   | 16QAM      | 1       | 0         | 19.09       | 19.16          | 19.22        |                     |
| 5                                   | 16QAM      | 1       | 12        | 19.06       | 19.12          | 19.10        | 20                  |
| 5                                   | 16QAM      | 1       | 24        | 19.07       | 19.08          | 19.11        |                     |
| 5                                   | 16QAM      | 12      | 0         | 17.86       | 17.91          | 17.89        |                     |
| 5                                   | 16QAM      | 12      | 7         | 17.87       | 18.01          | 17.91        | 19                  |
| 5                                   | 16QAM      | 12      | 13        | 17.92       | 18.05          | 17.89        |                     |
| 5                                   | 16QAM      | 25      | 0         | 17.99       | 17.96          | 17.93        |                     |
| 5                                   | 64QAM      | 1       | 0         | 19.22       | 19.27          | 19.13        | 20                  |
| 5                                   | 64QAM      | 1       | 12        | 19.12       | 19.14          | 19.07        |                     |
| 5                                   | 64QAM      | 1       | 24        | 19.19       | 19.24          | 19.20        |                     |
| 5                                   | 64QAM      | 12      | 0         | 17.89       | 17.98          | 17.98        | 19                  |
| 5                                   | 64QAM      | 12      | 7         | 17.84       | 17.96          | 17.91        |                     |
| 5                                   | 64QAM      | 12      | 13        | 17.96       | 18.04          | 17.89        |                     |
| 5                                   | 64QAM      | 25      | 0         | 18.00       | 18.02          | 17.97        |                     |
| Channel                             |            |         |           | 19965       | 20175          | 20385        | Tune-up limit (dBm) |
| Frequency (MHz)                     |            |         |           | 1711.5      | 1732.5         | 1753.5       | 21                  |
| 3                                   | QPSK       | 1       | 0         | 20.13       | 20.12          | 20.07        |                     |
| 3                                   | QPSK       | 1       | 8         | 19.99       | 20.01          | 19.95        |                     |
| 3                                   | QPSK       | 1       | 14        | 20.05       | 20.05          | 19.97        | 20                  |
| 3                                   | QPSK       | 8       | 0         | 19.09       | 19.07          | 19.05        |                     |
| 3                                   | QPSK       | 8       | 4         | 19.08       | 19.03          | 18.99        |                     |
| 3                                   | QPSK       | 8       | 7         | 18.92       | 19.02          | 18.87        |                     |



|                 |       |    |    |        |       |        |                        |
|-----------------|-------|----|----|--------|-------|--------|------------------------|
| 3               | QPSK  | 15 | 0  | 18.28  | 18.37 | 18.27  | 19                     |
| 3               | 16QAM | 1  | 0  | 18.29  | 18.36 | 18.21  |                        |
| 3               | 16QAM | 1  | 8  | 18.28  | 18.26 | 18.32  |                        |
| 3               | 16QAM | 1  | 14 | 18.30  | 18.35 | 18.32  | 18                     |
| 3               | 16QAM | 8  | 0  | 17.32  | 17.43 | 17.40  |                        |
| 3               | 16QAM | 8  | 4  | 17.35  | 17.39 | 17.34  |                        |
| 3               | 16QAM | 8  | 7  | 17.22  | 17.26 | 17.24  | 19                     |
| 3               | 16QAM | 15 | 0  | 17.27  | 17.44 | 17.31  |                        |
| 3               | 64QAM | 1  | 0  | 18.41  | 18.45 | 18.33  |                        |
| 3               | 64QAM | 1  | 8  | 18.17  | 18.44 | 18.29  | 18                     |
| 3               | 64QAM | 1  | 14 | 18.35  | 18.31 | 18.13  |                        |
| 3               | 64QAM | 8  | 0  | 17.37  | 17.39 | 17.27  |                        |
| 3               | 64QAM | 8  | 4  | 17.30  | 17.44 | 17.22  | 19                     |
| 3               | 64QAM | 8  | 7  | 17.08  | 17.25 | 17.22  |                        |
| 3               | 64QAM | 15 | 0  | 17.19  | 17.38 | 17.20  |                        |
| Channel         |       |    |    | 18607  | 18900 | 19193  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |       |    |    | 1850.7 | 1880  | 1909.3 |                        |
| 1.4             | QPSK  | 1  | 0  | 19.24  | 19.34 | 19.30  | 20                     |
| 1.4             | QPSK  | 1  | 3  | 19.28  | 19.33 | 19.11  |                        |
| 1.4             | QPSK  | 1  | 5  | 19.09  | 19.27 | 19.11  |                        |
| 1.4             | QPSK  | 3  | 0  | 19.34  | 19.40 | 19.34  | 19                     |
| 1.4             | QPSK  | 3  | 1  | 19.36  | 19.41 | 19.19  |                        |
| 1.4             | QPSK  | 3  | 3  | 19.31  | 19.29 | 19.25  |                        |
| 1.4             | QPSK  | 6  | 0  | 18.25  | 18.36 | 18.22  | 18                     |
| 1.4             | 16QAM | 1  | 0  | 18.34  | 18.43 | 18.44  |                        |
| 1.4             | 16QAM | 1  | 3  | 18.25  | 18.34 | 18.49  |                        |
| 1.4             | 16QAM | 1  | 5  | 18.35  | 18.33 | 18.25  | 19                     |
| 1.4             | 16QAM | 3  | 0  | 18.39  | 18.46 | 18.44  |                        |
| 1.4             | 16QAM | 3  | 1  | 18.30  | 18.40 | 18.37  |                        |
| 1.4             | 16QAM | 3  | 3  | 18.25  | 18.31 | 18.20  | 18                     |
| 1.4             | 16QAM | 6  | 0  | 17.35  | 17.45 | 17.30  |                        |
| 1.4             | 64QAM | 1  | 0  | 18.41  | 18.46 | 18.34  |                        |
| 1.4             | 64QAM | 1  | 3  | 18.18  | 18.44 | 18.26  | 19                     |
| 1.4             | 64QAM | 1  | 5  | 18.32  | 18.28 | 18.14  |                        |
| 1.4             | 64QAM | 3  | 0  | 18.31  | 18.39 | 18.33  |                        |
| 1.4             | 64QAM | 3  | 1  | 18.31  | 18.38 | 18.18  | 18                     |
| 1.4             | 64QAM | 3  | 3  | 18.04  | 18.32 | 18.23  |                        |
| 1.4             | 64QAM | 6  | 0  | 17.14  | 17.38 | 17.18  |                        |

|                 |       |    |    |        |        |        |                        |
|-----------------|-------|----|----|--------|--------|--------|------------------------|
| 3               | QPSK  | 15 | 0  | 18.98  | 19.06  | 19.00  | 20                     |
| 3               | 16QAM | 1  | 0  | 19.15  | 19.19  | 19.18  |                        |
| 3               | 16QAM | 1  | 8  | 19.05  | 19.16  | 19.07  |                        |
| 3               | 16QAM | 1  | 14 | 19.11  | 19.10  | 19.07  | 19                     |
| 3               | 16QAM | 8  | 0  | 17.91  | 17.95  | 17.94  |                        |
| 3               | 16QAM | 8  | 4  | 17.94  | 18.03  | 17.94  |                        |
| 3               | 16QAM | 8  | 7  | 17.96  | 18.04  | 17.91  | 20                     |
| 3               | 16QAM | 15 | 0  | 17.94  | 18.01  | 18.01  |                        |
| 3               | 64QAM | 1  | 0  | 19.17  | 19.24  | 19.13  |                        |
| 3               | 64QAM | 1  | 8  | 19.12  | 19.12  | 19.12  | 19                     |
| 3               | 64QAM | 1  | 14 | 19.23  | 19.22  | 19.15  |                        |
| 3               | 64QAM | 8  | 0  | 17.92  | 17.95  | 17.94  |                        |
| 3               | 64QAM | 8  | 4  | 17.89  | 17.94  | 17.92  | 20                     |
| 3               | 64QAM | 8  | 7  | 18.00  | 18.03  | 17.87  |                        |
| 3               | 64QAM | 15 | 0  | 18.01  | 18.10  | 18.00  |                        |
| Channel         |       |    |    | 19957  | 20175  | 20393  | Tune-up limit<br>(dBm) |
| Frequency (MHz) |       |    |    | 1710.7 | 1732.5 | 1754.3 |                        |
| 1.4             | QPSK  | 1  | 0  | 20.08  | 20.14  | 20.12  | 21                     |
| 1.4             | QPSK  | 1  | 3  | 19.94  | 20.09  | 19.93  |                        |
| 1.4             | QPSK  | 1  | 5  | 20.01  | 20.11  | 19.96  |                        |
| 1.4             | QPSK  | 3  | 0  | 20.02  | 20.03  | 20.03  | 20                     |
| 1.4             | QPSK  | 3  | 1  | 20.01  | 20.09  | 19.91  |                        |
| 1.4             | QPSK  | 3  | 3  | 19.92  | 20.02  | 19.87  |                        |
| 1.4             | QPSK  | 6  | 0  | 18.97  | 19.00  | 19.01  | 19                     |
| 1.4             | 16QAM | 1  | 0  | 19.12  | 19.15  | 19.20  |                        |
| 1.4             | 16QAM | 1  | 3  | 19.12  | 19.14  | 19.07  |                        |
| 1.4             | 16QAM | 1  | 5  | 19.09  | 19.14  | 19.11  | 20                     |
| 1.4             | 16QAM | 3  | 0  | 18.87  | 18.94  | 18.88  |                        |
| 1.4             | 16QAM | 3  | 1  | 18.92  | 19.01  | 18.90  |                        |
| 1.4             | 16QAM | 3  | 3  | 18.92  | 19.06  | 18.97  | 19                     |
| 1.4             | 16QAM | 6  | 0  | 17.94  | 17.98  | 17.92  |                        |
| 1.4             | 64QAM | 1  | 0  | 19.21  | 19.25  | 19.16  |                        |
| 1.4             | 64QAM | 1  | 3  | 19.15  | 19.18  | 19.12  | 20                     |
| 1.4             | 64QAM | 1  | 5  | 19.19  | 19.19  | 19.16  |                        |
| 1.4             | 64QAM | 3  | 0  | 18.84  | 18.95  | 18.90  |                        |
| 1.4             | 64QAM | 3  | 1  | 18.82  | 18.92  | 18.86  | 19                     |
| 1.4             | 64QAM | 3  | 3  | 18.99  | 19.00  | 18.91  |                        |
| 1.4             | 64QAM | 6  | 0  | 18.02  | 18.11  | 17.98  |                        |



| Band 5 (Cellular Band) (dBm)       |            |         |           |             |                |              |                     |
|------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| 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         | 22.08       | 22.13          | 22.10        | 23                  |
| 10                                 | QPSK       | 1       | 25        | 21.99       | 22.04          | 21.94        |                     |
| 10                                 | QPSK       | 1       | 49        | 22.05       | 22.11          | 22.07        |                     |
| 10                                 | QPSK       | 25      | 0         | 20.99       | 21.05          | 21.01        | 22                  |
| 10                                 | QPSK       | 25      | 12        | 20.85       | 20.97          | 20.90        |                     |
| 10                                 | QPSK       | 25      | 25        | 20.89       | 21.01          | 20.87        |                     |
| 10                                 | QPSK       | 50      | 0         | 20.94       | 21.00          | 20.92        | 22                  |
| 10                                 | 16QAM      | 1       | 0         | 21.22       | 21.28          | 21.20        |                     |
| 10                                 | 16QAM      | 1       | 25        | 21.17       | 21.25          | 21.20        |                     |
| 10                                 | 16QAM      | 1       | 49        | 21.20       | 21.21          | 21.15        | 21                  |
| 10                                 | 16QAM      | 25      | 0         | 20.01       | 20.08          | 20.01        |                     |
| 10                                 | 16QAM      | 25      | 12        | 19.91       | 19.99          | 19.90        |                     |
| 10                                 | 16QAM      | 25      | 25        | 19.96       | 20.01          | 19.98        | 22                  |
| 10                                 | 16QAM      | 50      | 0         | 19.94       | 20.04          | 19.94        |                     |
| 10                                 | 64QAM      | 1       | 0         | 21.07       | 21.09          | 20.99        |                     |
| 10                                 | 64QAM      | 1       | 25        | 20.95       | 21.05          | 20.97        | 21                  |
| 10                                 | 64QAM      | 1       | 49        | 21.00       | 21.01          | 20.97        |                     |
| 10                                 | 64QAM      | 25      | 0         | 19.94       | 19.99          | 19.92        |                     |
| 10                                 | 64QAM      | 25      | 12        | 19.92       | 19.96          | 19.86        | 21                  |
| 10                                 | 64QAM      | 25      | 25        | 19.91       | 19.95          | 19.91        |                     |
| 10                                 | 64QAM      | 50      | 0         | 19.90       | 19.92          | 19.85        |                     |
| Channel                            |            |         |           | 20425       | 20525          | 20625        | Tune-up limit (dBm) |
| Frequency (MHz)                    |            |         |           | 826.5       | 836.5          | 846.5        |                     |
| 5                                  | QPSK       | 1       | 0         | 22.01       | 22.11          | 22.05        | 23                  |
| 5                                  | QPSK       | 1       | 12        | 21.93       | 22.01          | 21.92        |                     |
| 5                                  | QPSK       | 1       | 24        | 22.02       | 22.06          | 22.03        |                     |
| 5                                  | QPSK       | 12      | 0         | 20.94       | 20.97          | 20.99        | 22                  |
| 5                                  | QPSK       | 12      | 7         | 20.79       | 20.96          | 20.83        |                     |
| 5                                  | QPSK       | 12      | 13        | 20.79       | 20.92          | 20.81        |                     |
| 5                                  | QPSK       | 25      | 0         | 20.86       | 20.97          | 20.84        | 22                  |
| 5                                  | 16QAM      | 1       | 0         | 21.13       | 21.26          | 21.18        |                     |
| 5                                  | 16QAM      | 1       | 12        | 21.14       | 21.21          | 21.14        |                     |
| 5                                  | 16QAM      | 1       | 24        | 21.10       | 21.20          | 21.10        | 21                  |
| 5                                  | 16QAM      | 12      | 0         | 19.94       | 20.04          | 19.92        |                     |
| 5                                  | 16QAM      | 12      | 7         | 19.88       | 19.89          | 19.84        |                     |
| 5                                  | 16QAM      | 12      | 13        | 19.91       | 19.95          | 19.97        | 22                  |
| 5                                  | 16QAM      | 25      | 0         | 19.91       | 20.03          | 19.84        |                     |
| 5                                  | 64QAM      | 1       | 0         | 21.04       | 21.04          | 20.92        |                     |
| 5                                  | 64QAM      | 1       | 12        | 20.86       | 20.97          | 20.95        | 21                  |
| 5                                  | 64QAM      | 1       | 24        | 20.95       | 20.95          | 20.94        |                     |
| 5                                  | 64QAM      | 12      | 0         | 19.84       | 19.89          | 19.91        |                     |
| 5                                  | 64QAM      | 12      | 7         | 19.82       | 19.95          | 19.78        | 21                  |
| 5                                  | 64QAM      | 12      | 13        | 19.88       | 19.91          | 19.83        |                     |
| 5                                  | 64QAM      | 25      | 0         | 19.87       | 19.88          | 19.78        |                     |
| Channel                            |            |         |           | 20415       | 20525          | 20635        | Tune-up limit (dBm) |
| Frequency (MHz)                    |            |         |           | 825.5       | 836.5          | 847.5        |                     |
| 3                                  | QPSK       | 1       | 0         | 22.05       | 22.06          | 22.01        | 23                  |
| 3                                  | QPSK       | 1       | 8         | 21.89       | 22.03          | 21.90        |                     |
| 3                                  | QPSK       | 1       | 14        | 22.03       | 22.04          | 22.02        |                     |
| 3                                  | QPSK       | 8       | 0         | 20.97       | 20.95          | 20.92        | 22                  |
| 3                                  | QPSK       | 8       | 4         | 20.79       | 20.96          | 20.80        |                     |
| 3                                  | QPSK       | 8       | 7         | 20.87       | 20.93          | 20.86        |                     |
| 3                                  | QPSK       | 15      | 0         | 20.93       | 20.94          | 20.85        | 22                  |
| 3                                  | 16QAM      | 1       | 0         | 21.16       | 21.23          | 21.10        |                     |
| 3                                  | 16QAM      | 1       | 8         | 21.10       | 21.16          | 21.12        |                     |
| 3                                  | 16QAM      | 1       | 14        | 21.13       | 21.18          | 21.14        | 21                  |
| 3                                  | 16QAM      | 8       | 0         | 19.99       | 20.00          | 19.95        |                     |
| 3                                  | 16QAM      | 8       | 4         | 19.83       | 19.89          | 19.80        |                     |
| 3                                  | 16QAM      | 8       | 7         | 19.89       | 19.99          | 19.95        | 22                  |
| 3                                  | 16QAM      | 15      | 0         | 19.87       | 19.99          | 19.86        |                     |
| 3                                  | 64QAM      | 1       | 0         | 21.05       | 20.99          | 20.92        |                     |
| 3                                  | 64QAM      | 1       | 8         | 20.88       | 21.02          | 20.92        | 21                  |
| 3                                  | 64QAM      | 1       | 14        | 20.93       | 20.99          | 20.94        |                     |
| 3                                  | 64QAM      | 8       | 0         | 19.88       | 19.91          | 19.89        |                     |
| 3                                  | 64QAM      | 8       | 4         | 19.84       | 19.86          | 19.80        | 21                  |
| 3                                  | 64QAM      | 8       | 7         | 19.87       | 19.91          | 19.85        |                     |
| 3                                  | 64QAM      | 15      | 0         | 19.83       | 19.88          | 19.79        |                     |
| Channel                            |            |         |           | 20407       | 20525          | 20643        | Tune-up limit (dBm) |
| Frequency (MHz)                    |            |         |           | 824.7       | 836.5          | 848.3        |                     |
| 1.4                                | QPSK       | 1       | 0         | 22.01       | 22.06          | 22.07        | 23                  |
| 1.4                                | QPSK       | 1       | 3         | 21.95       | 21.96          | 21.86        |                     |
| 1.4                                | QPSK       | 1       | 5         | 21.97       | 22.08          | 21.98        |                     |
| 1.4                                | QPSK       | 3       | 0         | 21.90       | 22.01          | 21.91        | 22                  |
| 1.4                                | QPSK       | 3       | 1         | 21.81       | 21.96          | 21.80        |                     |
| 1.4                                | QPSK       | 3       | 3         | 21.81       | 21.93          | 21.84        |                     |
| 1.4                                | QPSK       | 6       | 0         | 20.91       | 20.97          | 20.89        | 22                  |
| 1.4                                | 16QAM      | 1       | 0         | 21.21       | 21.24          | 21.18        |                     |
| 1.4                                | 16QAM      | 1       | 3         | 21.14       | 21.18          | 21.15        |                     |
| 1.4                                | 16QAM      | 1       | 5         | 21.13       | 21.19          | 21.10        | 21                  |
| 1.4                                | 16QAM      | 3       | 0         | 21.00       | 21.06          | 20.93        |                     |
| 1.4                                | 16QAM      | 3       | 1         | 20.88       | 20.98          | 20.85        |                     |
| 1.4                                | 16QAM      | 3       | 3         | 20.93       | 20.92          | 20.93        | 22                  |
| 1.4                                | 16QAM      | 6       | 0         | 19.89       | 19.96          | 19.85        |                     |
| 1.4                                | 64QAM      | 1       | 0         | 20.98       | 21.08          | 20.97        |                     |
| 1.4                                | 64QAM      | 1       | 3         | 20.90       | 21.04          | 20.87        | 22                  |
| 1.4                                | 64QAM      | 1       | 5         | 20.93       | 20.91          | 20.90        |                     |
| 1.4                                | 64QAM      | 3       | 0         | 20.88       | 20.91          | 20.86        |                     |
| 1.4                                | 64QAM      | 3       | 1         | 20.90       | 20.88          | 20.80        | 21                  |
| 1.4                                | 64QAM      | 3       | 3         | 20.81       | 20.86          | 20.90        |                     |
| 1.4                                | 64QAM      | 6       | 0         | 19.83       | 19.91          | 19.79        |                     |

| 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         | 20.22       | 20.28          | 20.24        | 21                  |
| 20              | QPSK       | 1       | 49        | 20.08       | 20.18          | 20.17        |                     |
| 20              | QPSK       | 1       | 99        | 20.13       | 20.20          | 20.13        |                     |
| 20              | QPSK       | 50      | 0         | 19.04       | 19.08          | 19.03        | 20                  |
| 20              | QPSK       | 50      | 24        | 19.03       | 19.04          | 19.00        |                     |
| 20              | QPSK       | 50      | 50        | 19.01       | 19.03          | 18.96        |                     |
| 20              | QPSK       | 100     | 0         | 18.96       | 19.06          | 18.98        | 20                  |
| 20              | 16QAM      | 1       | 0         | 19.21       | 19.25          | 19.18        |                     |
| 20              | 16QAM      | 1       | 49        | 19.16       | 19.22          | 19.20        |                     |
| 20              | 16QAM      | 1       | 99        | 19.22       | 19.25          | 19.18        | 19                  |
| 20              | 16QAM      | 50      | 0         | 18.14       | 18.16          | 18.10        |                     |
| 20              | 16QAM      | 50      | 24        | 18.07       | 18.13          | 18.11        |                     |
| 20              | 16QAM      | 50      | 50        | 18.01       | 18.11          | 18.10        | 20                  |
| 20              | 16QAM      | 100     | 0         | 18.01       | 18.09          | 18.04        |                     |
| 20              | 64QAM      | 1       | 0         | 19.08       | 19.10          | 19.00        |                     |
| 20              | 64QAM      | 1       | 49        | 18.98       | 19.05          | 19.00        | 19                  |
| 20              | 64QAM      | 1       | 99        | 19.04       | 19.09          | 19.04        |                     |
| 20              | 64QAM      | 50      | 0         | 18.02       | 18.03          | 17.97        |                     |
| 20              | 64QAM      | 50      | 24        | 18.06       | 18.09          | 18.03        | 19                  |
| 20              | 64QAM      | 50      | 50        | 18.05       | 18.12          | 18.02        |                     |
| 20              | 64QAM      | 100     | 0         | 17.99       | 18.08          | 18.05        |                     |
| Channel         |            |         |           | 132047      | 132322         | 132597       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5      | 1745           | 1772.5       |                     |
| 15              | QPSK       | 1       | 0         | 20.14       | 20.25          | 20.20        | 21                  |
| 15              | QPSK       | 1       | 37        | 20.01       | 20.09          | 20.14        |                     |
| 15              | QPSK       | 1       | 74        | 20.08       | 20.10          | 20.10        |                     |
| 15              | QPSK       | 36      | 0         | 18.96       | 19.01          | 18.98        | 20                  |
| 15              | QPSK       | 36      | 20        | 18.94       | 19.01          | 18.95        |                     |
| 15              | QPSK       | 36      | 39        | 18.95       | 18.93          | 18.88        |                     |
| 15              | QPSK       | 75      | 0         | 18.94       | 18.99          | 18.94        | 20                  |
| 15              | 16QAM      | 1       | 0         | 19.19       | 19.19          | 19.12        |                     |
| 15              | 16QAM      | 1       | 37        | 19.11       | 19.16          | 19.19        |                     |
| 15              | 16QAM      | 1       | 74        | 19.14       | 19.15          | 19.16        | 19                  |
| 15              | 16QAM      | 36      | 0         | 18.09       | 18.09          | 18.02        |                     |
| 15              | 16QAM      | 36      | 20        | 18.05       | 18.06          | 18.08        |                     |
| 15              | 16QAM      | 36      | 39        | 17.92       | 18.06          | 18.03        | 20                  |
| 15              | 16QAM      | 75      | 0         | 18.00       | 18.00          | 17.96        |                     |
| 15              | 64QAM      | 1       | 0         | 19.04       | 19.06          | 18.99        |                     |
| 15              | 64QAM      | 1       | 37        | 18.94       | 19.01          | 18.92        | 19                  |
| 15              | 64QAM      | 1       | 74        | 18.98       | 19.04          | 18.99        |                     |
| 15              | 64QAM      | 36      | 0         | 17.93       | 17.99          | 17.96        |                     |
| 15              | 64QAM      | 36      | 20        | 17.99       | 18.07          | 18.00        | 20                  |
| 15              | 64QAM      | 36      | 39        | 18.02       | 18.11          | 17.93        |                     |
| 15              | 64QAM      | 75      | 0         | 17.94       | 18.00          | 17.99        |                     |
| Channel         |            |         |           | 132022      | 132322         | 132622       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715        | 1745           | 1775         |                     |
| 10              | QPSK       | 1       | 0         | 20.18       | 20.24          | 20.23        | 21                  |
| 10              | QPSK       | 1       | 25        | 20.04       | 20.11          | 20.14        |                     |
| 10              | QPSK       | 1       | 49        | 20.11       | 20.19          | 20.04        |                     |
| 10              | QPSK       | 25      | 0         | 19.01       | 19.02          | 18.95        | 20                  |
| 10              | QPSK       | 25      | 12        | 18.97       | 18.94          | 18.99        |                     |
| 10              | QPSK       | 25      | 25        | 18.94       | 18.93          | 18.94        |                     |
| 10              | QPSK       | 50      | 0         | 18.91       | 19.02          | 18.90        | 20                  |
| 10              | 16QAM      | 1       | 0         | 19.19       | 19.23          | 19.10        |                     |
| 10              | 16QAM      | 1       | 25        | 19.14       | 19.13          | 19.15        |                     |
| 10              | 16QAM      | 1       | 49        | 19.16       | 19.22          | 19.15        | 19                  |
| 10              | 16QAM      | 25      | 0         | 18.09       | 18.11          | 18.06        |                     |
| 10              | 16QAM      | 25      | 12        | 18.03       | 18.03          | 18.06        |                     |
| 10              | 16QAM      | 25      | 25        | 17.94       | 18.06          | 18.05        | 20                  |
| 10              | 16QAM      | 50      | 0         | 18.00       | 18.08          | 17.94        |                     |
| 10              | 64QAM      | 1       | 0         | 19.02       | 19.01          | 18.90        |                     |
| 10              | 64QAM      | 1       | 25        | 18.93       | 19.02          | 18.95        | 19                  |
| 10              | 64QAM      | 1       | 49        | 19.00       | 19.06          | 19.01        |                     |
| 10              | 64QAM      | 25      | 0         | 17.92       | 17.99          | 17.91        |                     |
| 10              | 64QAM      | 25      | 12        | 18.02       | 18.00          | 17.96        | 20                  |
| 10              | 64QAM      | 25      | 25        | 17.98       | 18.11          | 17.98        |                     |
| 10              | 64QAM      | 50      | 0         | 17.95       | 17.98          | 18.01        |                     |
| Channel         |            |         |           | 131997      | 132322         | 132647       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5      | 1745           | 1777.5       |                     |
| 5               | QPSK       | 1       | 0         | 20.12       | 20.26          | 20.20        | 21                  |
| 5               | QPSK       | 1       | 12        | 20.06       | 20.08          | 20.08        |                     |
| 5               | QPSK       | 1       | 24        | 20.12       | 20.18          | 20.04        |                     |
| 5               | QPSK       | 12      | 0         | 18.96       | 19.01          | 18.95        | 20                  |
| 5               | QPSK       | 12      | 7         | 19.00       | 18.96          | 18.93        |                     |
| 5               | QPSK       | 12      | 13        | 18.92       | 18.94          | 18.87        |                     |
| 5               | QPSK       | 25      | 0         | 18.90       | 18.97          | 18.90        | 20                  |
| 5               | 16QAM      | 1       | 0         | 19.12       | 19.22          | 19.12        |                     |
| 5               | 16QAM      | 1       | 12        | 19.11       | 19.12          | 19.16        |                     |
| 5               | 16QAM      | 1       | 24        | 19.21       | 19.17          | 19.14        | 19                  |
| 5               | 16QAM      | 12      | 0         | 18.04       | 18.10          | 18.00        |                     |
| 5               | 16QAM      | 12      | 7         | 18.02       | 18.03          | 18.01        |                     |
| 5               | 16QAM      | 12      | 13        | 17.95       | 18.07          | 18.00        | 20                  |
| 5               | 16QAM      | 25      | 0         | 18.00       | 18.03          | 17.97        |                     |
| 5               | 64QAM      | 1       | 0         | 19.04       | 19.02          | 18.96        |                     |
| 5               | 64QAM      | 1       | 12        | 18.91       | 19.04          | 18.96        | 19                  |
| 5               | 64QAM      | 1       | 24        | 18.95       | 19.04          | 19.03        |                     |
| 5               | 64QAM      | 12      | 0         | 17.96       | 17.94          | 17.92        |                     |
| 5               | 64QAM      | 12      | 7         | 18.03       | 18.03          | 18.02        | 20                  |
| 5               | 64QAM      | 12      | 13        | 17.99       | 18.11          | 17.96        |                     |
| 5               | 64QAM      | 25      | 0         | 17.97       | 18.03          | 18.03        |                     |
| Channel         |            |         |           | 131987      | 132322         | 132657       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5      | 1745           | 1778.5       |                     |
| 3               | QPSK       | 1       | 0         | 20.12       | 20.26          | 20.14        | 21                  |
| 3               | QPSK       | 1       | 8         | 19.99       | 20.13          | 20.12        |                     |
| 3               | QPSK       | 1       | 14        | 20.10       | 20.16          | 20.07        |                     |
| 3               | QPSK       | 8       | 0         | 18.97       | 19.06          | 18.95        | 20                  |
| 3               | QPSK       | 8       | 4         | 19.00       | 18.94          | 18.99        |                     |
| 3               | QPSK       | 8       | 7         | 18.97       | 19.01          | 18.90        |                     |



# REPORT No.: SZ24020168S01

|                 |       |    |    |        |        |        |                        |
|-----------------|-------|----|----|--------|--------|--------|------------------------|
| 3               | QPSK  | 15 | 0  | 18.93  | 19.02  | 18.89  | 20                     |
| 3               | 16QAM | 1  | 0  | 19.17  | 19.19  | 19.12  |                        |
| 3               | 16QAM | 1  | 8  | 19.07  | 19.15  | 19.13  |                        |
| 3               | 16QAM | 1  | 14 | 19.15  | 19.24  | 19.17  | 19                     |
| 3               | 16QAM | 8  | 0  | 18.07  | 18.09  | 18.07  |                        |
| 3               | 16QAM | 8  | 4  | 18.00  | 18.03  | 18.02  |                        |
| 3               | 16QAM | 8  | 7  | 17.92  | 18.03  | 18.01  | 20                     |
| 3               | 16QAM | 15 | 0  | 17.97  | 18.00  | 18.02  |                        |
| 3               | 64QAM | 1  | 0  | 18.99  | 19.00  | 18.90  |                        |
| 3               | 64QAM | 1  | 8  | 18.93  | 18.98  | 18.91  | 19                     |
| 3               | 64QAM | 1  | 14 | 19.01  | 19.01  | 19.00  |                        |
| 3               | 64QAM | 8  | 0  | 18.01  | 17.98  | 17.88  |                        |
| 3               | 64QAM | 8  | 4  | 17.97  | 18.07  | 18.01  | 21                     |
| 3               | 64QAM | 8  | 7  | 17.96  | 18.06  | 18.00  |                        |
| 3               | 64QAM | 15 | 0  | 17.91  | 18.00  | 18.04  |                        |
| Channel         |       |    |    | 131979 | 132322 | 132665 | Tune-up limit<br>(dBm) |
| Frequency (MHz) |       |    |    | 1710.7 | 1745   | 1779.3 |                        |
| 1.4             | QPSK  | 1  | 0  | 20.17  | 20.19  | 20.22  | 20                     |
| 1.4             | QPSK  | 1  | 3  | 20.05  | 20.13  | 20.14  |                        |
| 1.4             | QPSK  | 1  | 5  | 20.07  | 20.10  | 20.12  |                        |
| 1.4             | QPSK  | 3  | 0  | 20.03  | 20.01  | 19.99  | 20                     |
| 1.4             | QPSK  | 3  | 1  | 19.95  | 19.94  | 19.95  |                        |
| 1.4             | QPSK  | 3  | 3  | 19.92  | 19.99  | 19.88  |                        |
| 1.4             | QPSK  | 6  | 0  | 18.95  | 19.04  | 18.90  | 19                     |
| 1.4             | 16QAM | 1  | 0  | 19.11  | 19.19  | 19.12  |                        |
| 1.4             | 16QAM | 1  | 3  | 19.15  | 19.18  | 19.10  |                        |
| 1.4             | 16QAM | 1  | 5  | 19.13  | 19.19  | 19.15  | 20                     |
| 1.4             | 16QAM | 3  | 0  | 19.09  | 19.13  | 19.00  |                        |
| 1.4             | 16QAM | 3  | 1  | 18.99  | 19.09  | 19.09  |                        |
| 1.4             | 16QAM | 3  | 3  | 18.92  | 19.01  | 19.03  | 19                     |
| 1.4             | 16QAM | 6  | 0  | 18.05  | 18.08  | 18.02  |                        |
| 1.4             | 64QAM | 1  | 0  | 18.99  | 19.00  | 18.98  |                        |
| 1.4             | 64QAM | 1  | 3  | 18.92  | 18.98  | 18.91  | 20                     |
| 1.4             | 64QAM | 1  | 5  | 19.03  | 18.99  | 19.03  |                        |
| 1.4             | 64QAM | 3  | 0  | 18.92  | 19.01  | 18.90  |                        |
| 1.4             | 64QAM | 3  | 1  | 18.99  | 19.03  | 18.95  | 19                     |
| 1.4             | 64QAM | 3  | 3  | 18.97  | 19.02  | 19.01  |                        |
| 1.4             | 64QAM | 6  | 0  | 17.93  | 18.04  | 18.01  |                        |

### 5GHz WLAN ANT 1

| 5.2GHz WLAN<br>ANT 1 | Mode                | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Power Setting | Duty Cycle % |
|----------------------|---------------------|---------|--------------------|------------------------|------------------|---------------|--------------|
|                      | 802.11a 6Mbps       | CH 36   | 5180               | 15.86                  | 17.00            | 17.00         | 98.54        |
|                      |                     | CH 44   | 5220               | 15.93                  | 17.00            | 17.00         |              |
|                      |                     | CH 48   | 5240               | 15.60                  | 16.50            | 17.00         |              |
|                      | 802.11n-HT20 MCS0   | CH 36   | 5180               | 15.29                  | 16.00            | 16.50         | 98.44        |
|                      |                     | CH 44   | 5220               | 15.34                  | 16.00            | 16.50         |              |
|                      |                     | CH 48   | 5240               | 14.87                  | 15.50            | 16.50         |              |
|                      | 802.11n-HT40 MCS0   | CH 38   | 5190               | 15.72                  | 16.50            | 16.50         | 96.87        |
|                      |                     | CH 46   | 5230               | 15.59                  | 16.50            | 16.50         |              |
|                      | 802.11ac-VHT20 MCS0 | CH 36   | 5180               | 15.64                  | 16.50            | 17.00         | 98.45        |
|                      |                     | CH 44   | 5220               | 15.71                  | 16.50            | 17.00         |              |
|                      |                     | CH 48   | 5240               | 15.33                  | 16.50            | 17.00         |              |
|                      | 802.11ac-VHT40 MCS0 | CH 38   | 5190               | 15.67                  | 16.50            | 16.50         | 96.91        |
|                      |                     | CH 46   | 5230               | 15.54                  | 16.50            | 16.50         |              |
|                      | 802.11ac-VHT80 MCS0 | CH 42   | 5210               | 15.58                  | 16.50            | 16.50         | 93.88        |

### 5GHz WLAN ANT 1

| 5.3GHz WLAN<br>ANT 1 | Mode                | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Power Setting | Duty Cycle % |
|----------------------|---------------------|---------|--------------------|------------------------|------------------|---------------|--------------|
|                      | 802.11a 6Mbps       | CH 52   | 5260               | 15.19                  | 16.00            | 16.50         | 98.54        |
|                      |                     | CH 60   | 5300               | 15.06                  | 16.00            | 16.50         |              |
|                      |                     | CH 64   | 5320               | 14.65                  | 15.50            | 16.50         |              |
|                      | 802.11n-HT20 MCS0   | CH 52   | 5260               | 14.63                  | 15.50            | 16.00         | 98.44        |
|                      |                     | CH 60   | 5300               | 14.42                  | 15.50            | 16.00         |              |
|                      |                     | CH 64   | 5320               | 14.02                  | 15.00            | 16.00         |              |
|                      | 802.11n-HT40 MCS0   | CH 54   | 5270               | 14.81                  | 15.50            | 16.00         | 95.88        |
|                      |                     | CH 62   | 5310               | 14.63                  | 15.50            | 16.00         |              |
|                      | 802.11ac-VHT20 MCS0 | CH 52   | 5260               | 14.99                  | 16.00            | 16.50         | 98.45        |
|                      |                     | CH 60   | 5300               | 14.85                  | 15.50            | 16.50         |              |
|                      |                     | CH 64   | 5320               | 14.45                  | 15.50            | 16.50         |              |
|                      | 802.11ac-VHT40 MCS0 | CH 54   | 5270               | 14.76                  | 15.50            | 16.00         | 96.91        |
|                      |                     | CH 62   | 5310               | 14.65                  | 15.50            | 16.00         |              |
|                      | 802.11ac-VHT80 MCS0 | CH 58   | 5290               | 14.67                  | 15.50            | 16.00         | 93.88        |

**Reduced Power Level 2**

| 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   |  | 27.52                     | 27.55 | 27.47  | 28.00                     | 18.52                     | 18.55 | 18.47  | 19.00                     |
| GPRS 1 Tx slot  |  | 27.54                     | 27.57 | 27.49  | 28.00                     | 18.54                     | 18.57 | 18.49  | 19.00                     |
| GPRS 2 Tx slots |  | 26.04                     | 26.05 | 25.98  | 26.50                     | 20.04                     | 20.05 | 19.98  | 20.50                     |
| GPRS 3 Tx slots |  | 23.87                     | 23.94 | 23.81  | 25.00                     | 19.61                     | 19.68 | 19.55  | 20.74                     |
| GPRS 4 Tx slots |  | 22.63                     | 22.68 | 22.57  | 23.50                     | 19.63                     | 19.68 | 19.57  | 20.50                     |
| EDGE 1 Tx slot  |  | 23.62                     | 23.53 | 23.40  | 24.50                     | 14.62                     | 14.53 | 14.40  | 15.50                     |
| EDGE 2 Tx slots |  | 21.68                     | 21.54 | 21.38  | 22.00                     | 15.68                     | 15.54 | 15.38  | 16.00                     |
| EDGE 3 Tx slots |  | 20.28                     | 20.21 | 20.02  | 21.50                     | 16.02                     | 15.95 | 15.76  | 17.24                     |
| EDGE 4 Tx slots |  | 19.04                     | 19.01 | 18.95  | 20.50                     | 16.04                     | 16.01 | 15.95  | 17.50                     |
| Mode            |  |                           | Max.  | 27.57  |                           |                           | Max.  | 20.05  |                           |
| Attenuator      |  | Cable Loss : 0.8          |       |        |                           |                           |       |        |                           |

| Band            |                         | WCDMA Band II (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA II<br>Ch<br>Delta<br>> 0.5 |
|-----------------|-------------------------|---------------------|-------|--------|---------------------------|----------------------------------|
| TX Channel      |                         | 9262                | 9400  | 9538   |                           |                                  |
| Rx Channel      |                         | 9662                | 9800  | 9938   |                           |                                  |
| Frequency (MHz) |                         | 1852.4              | 1880  | 1907.6 |                           |                                  |
| 3GPP Rel 99     | RMC 12.2Kbps            | 20.02               | 19.94 | 19.98  | 20.70                     | 0.08                             |
| 3GPP Rel 5      | HSDPA Subtest-1         | 18.80               | 18.67 | 18.71  | 19.50                     | 0.13                             |
| 3GPP Rel 5      | HSDPA Subtest-2         | 18.74               | 18.58 | 18.60  | 19.50                     | 0.16                             |
| 3GPP Rel 5      | HSDPA Subtest-3         | 18.25               | 18.06 | 17.96  | 19.00                     | 0.29                             |
| 3GPP Rel 5      | HSDPA Subtest-4         | 18.22               | 18.05 | 18.01  | 19.00                     | 0.21                             |
| 3GPP Rel 8      | DC-HSDPA Subtest-1      | 18.63               | 18.54 | 18.55  | 19.50                     | 0.09                             |
| 3GPP Rel 8      | DC-HSDPA Subtest-2      | 18.61               | 18.56 | 18.61  | 19.50                     | 0.05                             |
| 3GPP Rel 8      | DC-HSDPA Subtest-3      | 18.16               | 18.09 | 18.11  | 19.00                     | 0.07                             |
| 3GPP Rel 8      | DC-HSDPA Subtest-4      | 18.17               | 18.06 | 18.10  | 19.00                     | 0.11                             |
| 3GPP Rel 6      | HSUPA Subtest-1         | 18.87               | 18.66 | 18.49  | 19.50                     | 0.38                             |
| 3GPP Rel 6      | HSUPA Subtest-2         | 18.35               | 18.19 | 18.18  | 19.50                     | 0.17                             |
| 3GPP Rel 6      | HSUPA Subtest-3         | 18.77               | 18.68 | 18.36  | 19.50                     | 0.41                             |
| 3GPP Rel 6      | HSUPA Subtest-4         | 18.80               | 18.65 | 18.74  | 19.50                     | 0.15                             |
| 3GPP Rel 6      | HSUPA Subtest-5         | 18.85               | 18.64 | 18.55  | 19.50                     | 0.30                             |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 18.93               | 18.83 | 18.48  | 19.50                     | 0.45                             |
| Attenuator      |                         | Cable Loss          |       |        | 0.8                       |                                  |
| Mode            |                         |                     | Max.  | 20.02  |                           |                                  |

| Band 2 (1900MHz Band) (dBm) |            |         |           |             |                |              |                     |
|-----------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| 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         | 20.93       | 21.18          | 21.02        | 22                  |
| 20                          | QPSK       | 1       | 49        | 20.91       | 20.98          | 20.79        |                     |
| 20                          | QPSK       | 1       | 99        | 20.75       | 20.91          | 20.77        |                     |
| 20                          | QPSK       | 50      | 0         | 20.02       | 20.05          | 20.03        | 21                  |
| 20                          | QPSK       | 50      | 24        | 20.00       | 20.04          | 19.91        |                     |
| 20                          | QPSK       | 50      | 50        | 19.96       | 20.01          | 19.96        |                     |
| 20                          | QPSK       | 100     | 0         | 19.93       | 20.03          | 19.90        | 21                  |
| 20                          | 16QAM      | 1       | 0         | 20.19       | 20.28          | 20.12        |                     |
| 20                          | 16QAM      | 1       | 49        | 20.13       | 20.19          | 20.18        |                     |
| 20                          | 16QAM      | 1       | 99        | 20.02       | 20.04          | 19.96        | 20                  |
| 20                          | 16QAM      | 50      | 0         | 19.04       | 19.12          | 19.07        |                     |
| 20                          | 16QAM      | 50      | 24        | 19.01       | 19.10          | 19.05        |                     |
| 20                          | 16QAM      | 50      | 50        | 18.88       | 18.95          | 18.87        | 21                  |
| 20                          | 16QAM      | 100     | 0         | 18.99       | 19.11          | 18.96        |                     |
| 20                          | 64QAM      | 1       | 0         | 20.04       | 20.16          | 20.05        |                     |
| 20                          | 64QAM      | 1       | 49        | 19.89       | 20.08          | 19.97        | 20                  |
| 20                          | 64QAM      | 1       | 99        | 19.99       | 20.00          | 19.85        |                     |
| 20                          | 64QAM      | 50      | 0         | 19.00       | 19.09          | 18.97        |                     |
| 20                          | 64QAM      | 50      | 24        | 18.97       | 19.07          | 18.90        | 20                  |
| 20                          | 64QAM      | 50      | 50        | 18.75       | 18.95          | 18.91        |                     |
| 20                          | 64QAM      | 100     | 0         | 18.83       | 19.02          | 18.85        |                     |
| Channel                     |            |         |           | 18675       | 18900          | 19125        |                     |
| Frequency (MHz)             |            |         |           | 1857.5      | 1880           | 1902.5       |                     |
| 15                          | QPSK       | 1       | 0         | 21.21       | 21.34          | 21.31        | 22                  |
| 15                          | QPSK       | 1       | 37        | 21.24       | 21.30          | 21.12        |                     |
| 15                          | QPSK       | 1       | 74        | 21.05       | 21.26          | 21.06        |                     |
| 15                          | QPSK       | 36      | 0         | 20.30       | 20.36          | 20.34        | 21                  |
| 15                          | QPSK       | 36      | 20        | 20.29       | 20.41          | 20.27        |                     |
| 15                          | QPSK       | 36      | 39        | 20.33       | 20.34          | 20.26        |                     |
| 15                          | QPSK       | 75      | 0         | 20.28       | 20.36          | 20.23        | 21                  |
| 15                          | 16QAM      | 1       | 0         | 20.26       | 20.34          | 20.21        |                     |
| 15                          | 16QAM      | 1       | 37        | 20.23       | 20.31          | 20.29        |                     |
| 15                          | 16QAM      | 1       | 74        | 20.15       | 20.15          | 20.03        | 20                  |
| 15                          | 16QAM      | 36      | 0         | 19.10       | 19.26          | 19.20        |                     |
| 15                          | 16QAM      | 36      | 20        | 19.11       | 19.25          | 19.11        |                     |
| 15                          | 16QAM      | 36      | 39        | 18.99       | 19.05          | 18.97        | 21                  |
| 15                          | 16QAM      | 75      | 0         | 19.06       | 19.18          | 19.07        |                     |
| 15                          | 64QAM      | 1       | 0         | 20.10       | 20.29          | 20.19        |                     |
| 15                          | 64QAM      | 1       | 37        | 20.00       | 20.22          | 20.09        | 20                  |
| 15                          | 64QAM      | 1       | 74        | 20.13       | 20.08          | 19.99        |                     |
| 15                          | 64QAM      | 36      | 0         | 19.09       | 19.18          | 19.06        |                     |
| 15                          | 64QAM      | 36      | 20        | 19.07       | 19.16          | 18.98        | 20                  |
| 15                          | 64QAM      | 36      | 39        | 18.85       | 19.06          | 18.98        |                     |
| 15                          | 64QAM      | 75      | 0         | 18.94       | 19.10          | 18.96        |                     |
| Channel                     |            |         |           | 18650       | 18900          | 19150        |                     |
| Frequency (MHz)             |            |         |           | 1855        | 1880           | 1905         |                     |
| 10                          | QPSK       | 1       | 0         | 21.30       | 21.35          | 21.32        | 22                  |
| 10                          | QPSK       | 1       | 25        | 21.20       | 21.29          | 21.11        |                     |
| 10                          | QPSK       | 1       | 49        | 21.05       | 21.22          | 21.13        |                     |
| 10                          | QPSK       | 25      | 0         | 20.30       | 20.35          | 20.33        | 21                  |
| 10                          | QPSK       | 25      | 12        | 20.30       | 20.41          | 20.26        |                     |
| 10                          | QPSK       | 25      | 25        | 20.25       | 20.30          | 20.26        |                     |
| 10                          | QPSK       | 50      | 0         | 20.29       | 20.37          | 20.22        | 21                  |
| 10                          | 16QAM      | 1       | 0         | 20.29       | 20.38          | 20.41        |                     |
| 10                          | 16QAM      | 1       | 25        | 20.41       | 20.48          | 20.50        |                     |
| 10                          | 16QAM      | 1       | 49        | 20.38       | 20.37          | 20.32        | 20                  |
| 10                          | 16QAM      | 25      | 0         | 19.39       | 19.46          | 19.36        |                     |
| 10                          | 16QAM      | 25      | 12        | 19.33       | 19.46          | 19.34        |                     |
| 10                          | 16QAM      | 25      | 25        | 19.20       | 19.23          | 19.15        | 21                  |
| 10                          | 16QAM      | 50      | 0         | 19.36       | 19.46          | 19.31        |                     |
| 10                          | 64QAM      | 1       | 0         | 20.36       | 20.47          | 20.35        |                     |
| 10                          | 64QAM      | 1       | 25        | 20.24       | 20.36          | 20.31        | 20                  |
| 10                          | 64QAM      | 1       | 49        | 20.34       | 20.37          | 20.15        |                     |
| 10                          | 64QAM      | 25      | 0         | 19.30       | 19.41          | 19.34        |                     |
| 10                          | 64QAM      | 25      | 12        | 19.34       | 19.38          | 19.21        | 20                  |
| 10                          | 64QAM      | 25      | 25        | 19.08       | 19.28          | 19.19        |                     |
| 10                          | 64QAM      | 50      | 0         | 19.12       | 19.34          | 19.21        |                     |
| Channel                     |            |         |           | 18625       | 18900          | 19175        |                     |
| Frequency (MHz)             |            |         |           | 1852.5      | 1880           | 1907.5       |                     |
| 5                           | QPSK       | 1       | 0         | 21.23       | 21.42          | 21.33        | 22                  |
| 5                           | QPSK       | 1       | 12        | 21.21       | 21.32          | 21.09        |                     |
| 5                           | QPSK       | 1       | 24        | 21.11       | 21.26          | 21.12        |                     |
| 5                           | QPSK       | 12      | 0         | 20.34       | 20.34          | 20.40        | 21                  |
| 5                           | QPSK       | 12      | 7         | 20.32       | 20.34          | 20.23        |                     |
| 5                           | QPSK       | 12      | 13        | 20.30       | 20.35          | 20.26        |                     |
| 5                           | QPSK       | 25      | 0         | 20.23       | 20.35          | 20.20        | 21                  |
| 5                           | 16QAM      | 1       | 0         | 20.32       | 20.36          | 20.48        |                     |
| 5                           | 16QAM      | 1       | 12        | 20.21       | 20.33          | 20.48        |                     |
| 5                           | 16QAM      | 1       | 24        | 20.17       | 20.13          | 20.26        | 20                  |
| 5                           | 16QAM      | 12      | 0         | 19.17       | 19.21          | 19.40        |                     |
| 5                           | 16QAM      | 12      | 7         | 19.10       | 19.22          | 19.39        |                     |
| 5                           | 16QAM      | 12      | 13        | 18.97       | 19.02          | 19.21        | 21                  |
| 5                           | 16QAM      | 25      | 0         | 19.10       | 19.24          | 19.28        |                     |
| 5                           | 64QAM      | 1       | 0         | 20.19       | 20.31          | 20.38        |                     |
| 5                           | 64QAM      | 1       | 12        | 20.23       | 20.38          | 20.28        | 20                  |
| 5                           | 64QAM      | 1       | 24        | 20.30       | 20.35          | 20.20        |                     |
| 5                           | 64QAM      | 12      | 0         | 19.30       | 19.43          | 19.28        |                     |
| 5                           | 64QAM      | 12      | 7         | 19.30       | 19.38          | 19.25        | 20                  |
| 5                           | 64QAM      | 12      | 13        | 19.06       | 19.28          | 19.19        |                     |
| 5                           | 64QAM      | 25      | 0         | 19.14       | 19.34          | 19.19        |                     |
| Channel                     |            |         |           | 18615       | 18900          | 19165        |                     |
| Frequency (MHz)             |            |         |           | 1851.5      | 1880           | 1908.5       |                     |
| 3                           | QPSK       | 1       | 0         | 21.27       | 21.35          | 21.38        | 22                  |
| 3                           | QPSK       | 1       | 8         | 21.20       | 21.31          | 21.10        |                     |
| 3                           | QPSK       | 1       | 14        | 21.06       | 21.25          | 21.12        |                     |
| 3                           | QPSK       | 8       | 0         | 20.36       | 20.38          | 20.35        | 21                  |
| 3                           | QPSK       | 8       | 4         | 20.36       | 20.40          | 20.21        |                     |
| 3                           | QPSK       | 8       | 7         | 20.24       | 20.38          | 20.26        |                     |

|                 |       |    |    |        |       |        |                     |
|-----------------|-------|----|----|--------|-------|--------|---------------------|
| 3               | QPSK  | 15 | 0  | 20.28  | 20.37 | 20.27  |                     |
| 3               | 16QAM | 1  | 0  | 20.29  | 20.36 | 20.21  | 21                  |
| 3               | 16QAM | 1  | 8  | 20.28  | 20.26 | 20.32  |                     |
| 3               | 16QAM | 1  | 14 | 20.30  | 20.35 | 20.32  |                     |
| 3               | 16QAM | 8  | 0  | 19.32  | 19.43 | 19.40  |                     |
| 3               | 16QAM | 8  | 4  | 19.35  | 19.39 | 19.34  | 20                  |
| 3               | 16QAM | 8  | 7  | 19.22  | 19.26 | 19.24  |                     |
| 3               | 16QAM | 15 | 0  | 19.27  | 19.44 | 19.31  |                     |
| 3               | 64QAM | 1  | 0  | 20.41  | 20.45 | 20.33  |                     |
| 3               | 64QAM | 1  | 8  | 20.17  | 20.44 | 20.29  | 21                  |
| 3               | 64QAM | 1  | 14 | 20.35  | 20.31 | 20.13  |                     |
| 3               | 64QAM | 8  | 0  | 19.37  | 19.39 | 19.27  |                     |
| 3               | 64QAM | 8  | 4  | 19.30  | 19.44 | 19.22  | 20                  |
| 3               | 64QAM | 8  | 7  | 19.08  | 19.25 | 19.22  |                     |
| 3               | 64QAM | 15 | 0  | 19.19  | 19.38 | 19.20  |                     |
| Channel         |       |    |    | 18607  | 18900 | 19193  | Tune-up limit (dBm) |
| Frequency (MHz) |       |    |    | 1850.7 | 1880  | 1909.3 |                     |
| 1.4             | QPSK  | 1  | 0  | 21.24  | 21.34 | 21.30  |                     |
| 1.4             | QPSK  | 1  | 3  | 21.28  | 21.33 | 21.11  |                     |
| 1.4             | QPSK  | 1  | 5  | 21.09  | 21.27 | 21.11  | 22                  |
| 1.4             | QPSK  | 3  | 0  | 21.34  | 21.40 | 21.34  |                     |
| 1.4             | QPSK  | 3  | 1  | 21.36  | 21.41 | 21.19  |                     |
| 1.4             | QPSK  | 3  | 3  | 21.31  | 21.29 | 21.25  |                     |
| 1.4             | QPSK  | 6  | 0  | 20.25  | 20.36 | 20.22  | 21                  |
| 1.4             | 16QAM | 1  | 0  | 20.34  | 20.43 | 20.44  |                     |
| 1.4             | 16QAM | 1  | 3  | 20.25  | 20.34 | 20.49  |                     |
| 1.4             | 16QAM | 1  | 5  | 20.35  | 20.33 | 20.25  | 21                  |
| 1.4             | 16QAM | 3  | 0  | 20.39  | 20.46 | 20.44  |                     |
| 1.4             | 16QAM | 3  | 1  | 20.30  | 20.40 | 20.37  |                     |
| 1.4             | 16QAM | 3  | 3  | 20.25  | 20.31 | 20.20  |                     |
| 1.4             | 16QAM | 6  | 0  | 19.35  | 19.45 | 19.30  | 20                  |
| 1.4             | 64QAM | 1  | 0  | 20.41  | 20.46 | 20.34  |                     |
| 1.4             | 64QAM | 1  | 3  | 20.18  | 20.44 | 20.26  |                     |
| 1.4             | 64QAM | 1  | 5  | 20.32  | 20.28 | 20.14  | 21                  |
| 1.4             | 64QAM | 3  | 0  | 20.31  | 20.39 | 20.33  |                     |
| 1.4             | 64QAM | 3  | 1  | 20.31  | 20.38 | 20.18  |                     |
| 1.4             | 64QAM | 3  | 3  | 20.04  | 20.32 | 20.23  |                     |
| 1.4             | 64QAM | 6  | 0  | 19.14  | 19.38 | 19.18  | 20                  |

## 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.2GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 36   | 5180            | 15.86               | 17.00         | 17.00         | 98.54        |
|                   |                     | CH 44   | 5220            | 15.93               | 17.00         | 17.00         |              |
|                   |                     | CH 48   | 5240            | 15.60               | 16.50         | 17.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 36   | 5180            | 15.29               | 16.00         | 16.50         | 98.44        |
|                   |                     | CH 44   | 5220            | 15.34               | 16.00         | 16.50         |              |
|                   |                     | CH 48   | 5240            | 14.87               | 15.50         | 16.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 38   | 5190            | 15.72               | 16.50         | 16.50         | 96.87        |
|                   |                     | CH 46   | 5230            | 15.59               | 16.50         | 16.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 36   | 5180            | 15.64               | 16.50         | 17.00         | 98.45        |
|                   |                     | CH 44   | 5220            | 15.71               | 16.50         | 17.00         |              |
|                   |                     | CH 48   | 5240            | 15.33               | 16.50         | 17.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 38   | 5190            | 15.67               | 16.50         | 16.50         | 96.91        |
|                   |                     | CH 46   | 5230            | 15.54               | 16.50         | 16.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 42   | 5210            | 15.58               | 16.50         | 16.50         | 93.88        |

## 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.3GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 52   | 5260            | 14.69               | 15.50         | 16.00         | 98.54        |
|                   |                     | CH 60   | 5300            | 14.56               | 15.50         | 16.00         |              |
|                   |                     | CH 64   | 5320            | 14.15               | 15.00         | 16.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 52   | 5260            | 14.13               | 15.00         | 15.50         | 98.44        |
|                   |                     | CH 60   | 5300            | 13.92               | 15.00         | 15.50         |              |
|                   |                     | CH 64   | 5320            | 13.52               | 14.50         | 15.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 54   | 5270            | 14.31               | 15.00         | 15.50         | 95.88        |
|                   |                     | CH 62   | 5310            | 14.13               | 15.00         | 15.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 52   | 5260            | 14.49               | 15.50         | 16.00         | 98.45        |
|                   |                     | CH 60   | 5300            | 14.35               | 15.00         | 16.00         |              |
|                   |                     | CH 64   | 5320            | 13.95               | 15.00         | 16.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 54   | 5270            | 14.26               | 15.00         | 15.50         | 96.91        |
|                   |                     | CH 62   | 5310            | 14.15               | 15.00         | 15.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 58   | 5290            | 14.17               | 15.00         | 15.50         | 93.88        |

## 5GHzWLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.5GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 100  | 5500            | 16.13               | 17.00         | 17.00         | 98.54        |
|                   |                     | CH 120  | 5600            | 16.76               | 17.50         | 17.00         |              |
|                   |                     | CH 144  | 5720            | 16.29               | 17.00         | 17.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 100  | 5500            | 15.63               | 16.50         | 16.50         | 97.93        |
|                   |                     | CH 120  | 5600            | 16.07               | 17.00         | 16.50         |              |
|                   |                     | CH 144  | 5720            | 15.69               | 16.50         | 16.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 102  | 5510            | 15.98               | 17.00         | 16.50         | 95.88        |
|                   |                     | CH 126  | 5630            | 16.50               | 17.50         | 16.50         |              |
|                   |                     | CH 142  | 5710            | 16.10               | 17.00         | 16.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 100  | 5500            | 15.89               | 16.50         | 17.00         | 98.45        |
|                   |                     | CH 120  | 5600            | 16.49               | 17.50         | 17.00         |              |
|                   |                     | CH 144  | 5720            | 16.10               | 17.00         | 17.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 102  | 5510            | 16.11               | 17.00         | 16.50         | 96.91        |
|                   |                     | CH 126  | 5630            | 16.03               | 17.00         | 16.50         |              |
|                   |                     | CH 142  | 5710            | 15.79               | 16.50         | 16.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 106  | 5530            | 15.84               | 16.50         | 16.50         | 92.00        |
|                   |                     | CH 122  | 5610            | 16.37               | 17.00         | 16.50         |              |
|                   |                     | CH 138  | 5690            | 16.07               | 17.00         | 16.50         |              |

## 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.8GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 149  | 5745            | 16.14               | 17.00         | 17.00         | 98.07        |
|                   |                     | CH 157  | 5785            | 16.13               | 17.00         | 17.00         |              |
|                   |                     | CH 165  | 5825            | 16.21               | 17.00         | 17.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 149  | 5745            | 15.49               | 16.50         | 16.50         | 98.44        |
|                   |                     | CH 157  | 5785            | 15.45               | 16.50         | 16.50         |              |
|                   |                     | CH 165  | 5825            | 15.53               | 16.50         | 16.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 151  | 5755            | 16.03               | 17.00         | 16.50         | 96.88        |
|                   |                     | CH 159  | 5795            | 15.81               | 16.50         | 16.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 149  | 5745            | 15.97               | 17.00         | 17.00         | 97.94        |
|                   |                     | CH 157  | 5785            | 15.93               | 17.00         | 17.00         |              |
|                   |                     | CH 165  | 5825            | 16.05               | 17.00         | 17.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 151  | 5755            | 15.58               | 16.50         | 16.50         | 96.91        |
|                   |                     | CH 159  | 5795            | 15.17               | 16.00         | 16.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 155  | 5775            | 15.70               | 16.50         | 16.50         | 93.88        |

### Reduced Power Level 3

#### 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.2GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 36   | 5180            | 13.86               | 15.00         | 15.00         | 98.54        |
|                   |                     | CH 44   | 5220            | 13.93               | 15.00         | 15.00         |              |
|                   |                     | CH 48   | 5240            | 13.60               | 14.50         | 15.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 36   | 5180            | 13.29               | 14.00         | 14.50         | 98.44        |
|                   |                     | CH 44   | 5220            | 13.34               | 14.00         | 14.50         |              |
|                   |                     | CH 48   | 5240            | 12.87               | 13.50         | 14.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 38   | 5190            | 13.72               | 14.50         | 14.50         | 96.87        |
|                   |                     | CH 46   | 5230            | 13.59               | 14.50         | 14.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 36   | 5180            | 13.64               | 14.50         | 15.00         | 98.45        |
|                   |                     | CH 44   | 5220            | 13.71               | 14.50         | 15.00         |              |
|                   |                     | CH 48   | 5240            | 13.33               | 14.50         | 15.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 38   | 5190            | 13.67               | 14.50         | 14.50         | 96.91        |
|                   |                     | CH 46   | 5230            | 13.54               | 14.50         | 14.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 42   | 5210            | 13.58               | 14.50         | 14.50         | 93.88        |

#### 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.3GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 52   | 5260            | 13.69               | 14.50         | 15.00         | 98.54        |
|                   |                     | CH 60   | 5300            | 13.56               | 14.50         | 15.00         |              |
|                   |                     | CH 64   | 5320            | 13.15               | 14.00         | 15.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 52   | 5260            | 13.13               | 14.00         | 14.50         | 98.44        |
|                   |                     | CH 60   | 5300            | 12.92               | 14.00         | 14.50         |              |
|                   |                     | CH 64   | 5320            | 12.52               | 13.50         | 14.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 54   | 5270            | 13.31               | 14.00         | 14.50         | 95.88        |
|                   |                     | CH 62   | 5310            | 13.13               | 14.00         | 14.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 52   | 5260            | 13.49               | 14.50         | 15.00         | 98.45        |
|                   |                     | CH 60   | 5300            | 13.35               | 14.00         | 15.00         |              |
|                   |                     | CH 64   | 5320            | 12.95               | 14.00         | 15.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 54   | 5270            | 13.26               | 14.00         | 14.50         | 96.91        |
|                   |                     | CH 62   | 5310            | 13.15               | 14.00         | 14.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 58   | 5290            | 13.17               | 14.00         | 14.50         | 93.88        |

#### 5GHzWLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.5GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 100  | 5500            | 15.63               | 16.50         | 16.50         | 98.54        |
|                   |                     | CH 120  | 5600            | 16.26               | 17.00         | 16.50         |              |
|                   |                     | CH 144  | 5720            | 15.79               | 16.50         | 16.50         |              |
|                   | 802.11n-HT20 MCS0   | CH 100  | 5500            | 15.13               | 16.00         | 16.00         | 97.93        |
|                   |                     | CH 120  | 5600            | 15.57               | 16.50         | 16.00         |              |
|                   |                     | CH 144  | 5720            | 15.19               | 16.00         | 16.00         |              |
|                   | 802.11n-HT40 MCS0   | CH 102  | 5510            | 15.48               | 16.50         | 16.00         | 95.88        |
|                   |                     | CH 126  | 5630            | 16.00               | 17.00         | 16.00         |              |
|                   |                     | CH 142  | 5710            | 15.60               | 16.50         | 16.00         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 100  | 5500            | 15.39               | 16.00         | 16.50         | 98.45        |
|                   |                     | CH 120  | 5600            | 15.99               | 17.00         | 16.50         |              |
|                   |                     | CH 144  | 5720            | 15.60               | 16.50         | 16.50         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 102  | 5510            | 15.61               | 16.50         | 16.00         | 96.91        |
|                   |                     | CH 126  | 5630            | 15.53               | 16.50         | 16.00         |              |
|                   |                     | CH 142  | 5710            | 15.29               | 16.00         | 16.00         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 106  | 5530            | 15.34               | 16.00         | 16.00         | 92.00        |
|                   |                     | CH 122  | 5610            | 15.87               | 16.50         | 16.00         |              |
|                   |                     | CH 138  | 5690            | 15.57               | 16.50         | 16.00         |              |

#### 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.8GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 149  | 5745            | 16.14               | 17.00         | 17.00         | 98.07        |
|                   |                     | CH 157  | 5785            | 16.13               | 17.00         | 17.00         |              |
|                   |                     | CH 165  | 5825            | 16.21               | 17.00         | 17.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 149  | 5745            | 15.49               | 16.50         | 16.50         | 98.44        |
|                   |                     | CH 157  | 5785            | 15.45               | 16.50         | 16.50         |              |
|                   |                     | CH 165  | 5825            | 15.53               | 16.50         | 16.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 151  | 5755            | 16.03               | 17.00         | 16.50         | 96.88        |
|                   |                     | CH 159  | 5795            | 15.81               | 16.50         | 16.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 149  | 5745            | 15.97               | 17.00         | 17.00         | 97.94        |
|                   |                     | CH 157  | 5785            | 15.93               | 17.00         | 17.00         |              |
|                   |                     | CH 165  | 5825            | 16.05               | 17.00         | 17.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 151  | 5755            | 15.58               | 16.50         | 16.50         | 96.91        |
|                   |                     | CH 159  | 5795            | 15.17               | 16.00         | 16.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 155  | 5775            | 15.70               | 16.50         | 16.50         | 93.88        |

### Reduced Power Level 4

#### 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.2GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 36   | 5180            | 14.86               | 16.00         | 16.00         | 98.54        |
|                   |                     | CH 44   | 5220            | 14.93               | 16.00         | 16.00         |              |
|                   |                     | CH 48   | 5240            | 14.60               | 15.50         | 16.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 36   | 5180            | 14.29               | 15.00         | 15.50         | 98.44        |
|                   |                     | CH 44   | 5220            | 14.34               | 15.00         | 15.50         |              |
|                   |                     | CH 48   | 5240            | 13.87               | 14.50         | 15.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 38   | 5190            | 14.72               | 15.50         | 15.50         | 96.87        |
|                   |                     | CH 46   | 5230            | 14.59               | 15.50         | 15.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 36   | 5180            | 14.64               | 15.50         | 16.00         | 98.45        |
|                   |                     | CH 44   | 5220            | 14.71               | 15.50         | 16.00         |              |
|                   |                     | CH 48   | 5240            | 14.33               | 15.50         | 16.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 38   | 5190            | 14.67               | 15.50         | 15.50         | 96.91        |
|                   |                     | CH 46   | 5230            | 14.54               | 15.50         | 15.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 42   | 5210            | 14.58               | 15.50         | 15.50         | 93.88        |

#### 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.3GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 52   | 5260            | 13.69               | 14.50         | 15.00         | 98.54        |
|                   |                     | CH 60   | 5300            | 13.56               | 14.50         | 15.00         |              |
|                   |                     | CH 64   | 5320            | 13.15               | 14.00         | 15.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 52   | 5260            | 13.13               | 14.00         | 14.50         | 98.44        |
|                   |                     | CH 60   | 5300            | 12.92               | 14.00         | 14.50         |              |
|                   |                     | CH 64   | 5320            | 12.52               | 13.50         | 14.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 54   | 5270            | 13.31               | 14.00         | 14.50         | 95.88        |
|                   |                     | CH 62   | 5310            | 13.13               | 14.00         | 14.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 52   | 5260            | 13.49               | 14.50         | 15.00         | 98.45        |
|                   |                     | CH 60   | 5300            | 13.35               | 14.00         | 15.00         |              |
|                   |                     | CH 64   | 5320            | 12.95               | 14.00         | 15.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 54   | 5270            | 13.26               | 14.00         | 14.50         | 96.91        |
|                   |                     | CH 62   | 5310            | 13.15               | 14.00         | 14.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 58   | 5290            | 13.17               | 14.00         | 14.50         | 93.88        |

#### 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.5GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 100  | 5500            | 14.63               | 15.50         | 15.50         | 98.54        |
|                   |                     | CH 120  | 5600            | 15.26               | 16.00         | 15.50         |              |
|                   |                     | CH 144  | 5720            | 14.79               | 15.50         | 15.50         |              |
|                   | 802.11n-HT20 MCS0   | CH 100  | 5500            | 14.13               | 15.00         | 15.00         | 97.93        |
|                   |                     | CH 120  | 5600            | 14.57               | 15.50         | 15.00         |              |
|                   |                     | CH 144  | 5720            | 14.19               | 15.00         | 15.00         |              |
|                   | 802.11n-HT40 MCS0   | CH 102  | 5510            | 14.48               | 15.50         | 15.00         | 95.88        |
|                   |                     | CH 126  | 5630            | 15.00               | 16.00         | 15.00         |              |
|                   |                     | CH 142  | 5710            | 14.60               | 15.50         | 15.00         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 100  | 5500            | 14.39               | 15.00         | 15.50         | 98.45        |
|                   |                     | CH 120  | 5600            | 14.99               | 16.00         | 15.50         |              |
|                   |                     | CH 144  | 5720            | 14.60               | 15.50         | 15.50         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 102  | 5510            | 14.61               | 15.50         | 15.00         | 96.91        |
|                   |                     | CH 126  | 5630            | 14.53               | 15.50         | 15.00         |              |
|                   |                     | CH 142  | 5710            | 14.29               | 15.00         | 15.00         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 106  | 5530            | 14.34               | 15.00         | 15.00         | 92.00        |
|                   |                     | CH 122  | 5610            | 14.87               | 15.50         | 15.00         |              |
|                   |                     | CH 138  | 5690            | 14.57               | 15.50         | 15.00         |              |

#### 5GHz WLAN ANT 1

|                   | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Power Setting | Duty Cycle % |
|-------------------|---------------------|---------|-----------------|---------------------|---------------|---------------|--------------|
| 5.8GHz WLAN ANT 1 | 802.11a 6Mbps       | CH 149  | 5745            | 15.14               | 16.00         | 16.00         | 98.07        |
|                   |                     | CH 157  | 5785            | 15.13               | 16.00         | 16.00         |              |
|                   |                     | CH 165  | 5825            | 15.21               | 16.00         | 16.00         |              |
|                   | 802.11n-HT20 MCS0   | CH 149  | 5745            | 14.49               | 15.50         | 15.50         | 98.44        |
|                   |                     | CH 157  | 5785            | 14.45               | 15.50         | 15.50         |              |
|                   |                     | CH 165  | 5825            | 14.53               | 15.50         | 15.50         |              |
|                   | 802.11n-HT40 MCS0   | CH 151  | 5755            | 15.03               | 16.00         | 15.50         | 96.88        |
|                   |                     | CH 159  | 5795            | 14.81               | 15.50         | 15.50         |              |
|                   | 802.11ac-VHT20 MCS0 | CH 149  | 5745            | 14.97               | 16.00         | 16.00         | 97.94        |
|                   |                     | CH 157  | 5785            | 14.93               | 16.00         | 16.00         |              |
|                   |                     | CH 165  | 5825            | 15.05               | 16.00         | 16.00         |              |
|                   | 802.11ac-VHT40 MCS0 | CH 151  | 5755            | 14.58               | 15.50         | 15.50         | 96.91        |
|                   |                     | CH 159  | 5795            | 14.17               | 15.00         | 15.50         |              |
|                   | 802.11ac-VHT80 MCS0 | CH 155  | 5775            | 14.70               | 15.50         | 15.50         | 93.88        |