



REPORT No.: SZ22030213S01

## Annex E Conducted Power

**Note:**

Conducted power unit: dBm

The target power was recorded in the manufacture 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 |                     | 824.2                     | 836.4 | 848.8 |                     |                |
| GSM 1 Tx slot   |  | 32.29                     | 32.34 | 32.47 | 33.00               | 23.29                     | 23.34 | 23.47 | 24.00               | 0.20           |
| GPRS 1 Tx slot  |  | 32.28                     | 32.33 | 32.48 | 33.00               | 23.28                     | 23.33 | 23.48 | 24.00               |                |
| GPRS 2 Tx slots |  | 30.23                     | 30.37 | 30.33 | 31.00               | 24.23                     | 24.37 | 24.33 | 25.00               | 0.14           |
| GPRS 3 Tx slots |  | 27.52                     | 27.59 | 27.57 | 28.00               | 23.26                     | 23.33 | 23.31 | 23.74               | 0.07           |
| GPRS 4 Tx slots |  | 25.54                     | 25.64 | 25.47 | 26.00               | 22.54                     | 22.64 | 22.47 | 23.00               | 0.17           |
| EDGE 1 Tx slot  |  | 25.70                     | 25.74 | 25.75 | 26.00               | 16.70                     | 16.74 | 16.75 | 17.00               | 0.05           |
| EDGE 2 Tx slots |  | 23.48                     | 23.52 | 23.51 | 24.00               | 17.48                     | 17.52 | 17.51 | 18.00               | 0.04           |
| EDGE 3 Tx slots |  | 22.19                     | 22.26 | 22.30 | 23.00               | 17.93                     | 18.00 | 18.04 | 18.74               | 0.11           |
| EDGE 4 Tx slots |  | 20.20                     | 20.26 | 20.22 | 21.00               | 17.20                     | 17.26 | 17.22 | 18.00               | 0.06           |
| Mode            |  |                           | Max.  | 32.48 |                     |                           | Max.  | 24.37 |                     |                |
| 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 |                     | 1850.2                    | 1880  | 1909.8 |                     |                |
| GSM 1 Tx slot   |  | 30.05                     | 30.12 | 30.11  | 31.00               | 21.05                     | 21.12 | 21.11  | 22.00               | 0.08           |
| GPRS 1 Tx slot  |  | 30.04                     | 30.11 | 30.10  | 31.00               | 21.04                     | 21.11 | 21.10  | 22.00               |                |
| GPRS 2 Tx slots |  | 27.62                     | 27.66 | 27.57  | 28.50               | 21.62                     | 21.66 | 21.57  | 22.50               | 0.09           |
| GPRS 3 Tx slots |  | 25.49                     | 25.61 | 25.32  | 26.50               | 21.23                     | 21.35 | 21.06  | 22.24               | 0.29           |
| GPRS 4 Tx slots |  | 23.52                     | 23.62 | 23.61  | 24.50               | 20.52                     | 20.62 | 20.61  | 21.50               | 0.10           |
| EDGE 1 Tx slot  |  | 25.92                     | 25.99 | 25.91  | 26.50               | 16.92                     | 16.99 | 16.91  | 17.50               | 0.08           |
| EDGE 2 Tx slots |  | 23.64                     | 23.66 | 23.68  | 24.50               | 17.64                     | 17.66 | 17.68  | 18.50               | 0.04           |
| EDGE 3 Tx slots |  | 22.09                     | 22.15 | 22.26  | 23.00               | 17.83                     | 17.89 | 18.00  | 18.74               | 0.17           |
| EDGE 4 Tx slots |  | 20.62                     | 20.69 | 20.58  | 21.00               | 17.62                     | 17.69 | 17.58  | 18.00               | 0.11           |
| Mode            |  |                           | Max.  | 30.12  |                     |                           | Max.  | 21.66  |                     |                |
| Attenuator      |  | Cable Loss : 0.8          |       |        |                     |                           |       |        |                     |                |

| Band            |                         | WCDMA Band II |            |        | Tune-up Limit (dBm) | WCDMA Band IV |            |        | Tune-up Limit (dBm) | WCDMA Band V |            |       | Tune-up Limit (dBm) |
|-----------------|-------------------------|---------------|------------|--------|---------------------|---------------|------------|--------|---------------------|--------------|------------|-------|---------------------|
| TX Channel      |                         | 9262          | 9400       | 9538   |                     | 1312          | 1413       | 1513   |                     | 4132         | 4182       | 4233  |                     |
| Rx Channel      |                         | 9662          | 9800       | 9938   |                     | 1537          | 1638       | 1738   |                     | 4357         | 4407       | 4458  |                     |
| Frequency (MHz) |                         | 1852.4        | 1880       | 1907.6 |                     | 1712.4        | 1732.6     | 1752.6 |                     | 826.4        | 836.4      | 846.6 |                     |
| 3GPP Rel 99     | RMC 12.2Kbps            | 20.11         | 20.18      | 20.14  | 21.00               | 19.23         | 19.28      | 19.20  | 20.00               | 23.12        | 23.19      | 23.13 | 24.00               |
| 3GPP Rel 6      | HSDPA Subtest-1         | 19.57         | 19.43      | 19.55  | 20.00               | 18.96         | 18.74      | 18.99  | 19.50               | 22.29        | 22.39      | 22.33 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-2         | 19.55         | 19.44      | 19.49  | 20.00               | 18.93         | 18.74      | 18.97  | 19.50               | 22.28        | 22.46      | 22.29 | 23.00               |
| 3GPP Rel 6      | HSDPA Subtest-3         | 19.05         | 18.96      | 18.92  | 20.00               | 18.43         | 18.31      | 18.47  | 19.00               | 21.80        | 21.98      | 21.91 | 22.50               |
| 3GPP Rel 6      | HSDPA Subtest-4         | 19.06         | 18.86      | 18.92  | 20.00               | 18.52         | 18.30      | 18.56  | 19.00               | 21.80        | 21.98      | 21.82 | 22.50               |
| 3GPP Rel 6      | HSUPA Subtest-1         | 18.47         | 18.38      | 18.45  | 19.00               | 18.94         | 18.82      | 18.95  | 19.50               | 22.24        | 22.50      | 22.39 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-2         | 18.45         | 18.16      | 18.35  | 19.00               | 18.47         | 18.27      | 18.56  | 19.00               | 21.75        | 22.02      | 22.24 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-3         | 18.14         | 17.96      | 18.06  | 19.00               | 19.00         | 18.79      | 19.02  | 19.50               | 22.23        | 22.45      | 22.25 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-4         | 19.43         | 19.25      | 19.32  | 20.00               | 19.05         | 18.86      | 19.03  | 19.50               | 22.24        | 22.49      | 22.40 | 23.00               |
| 3GPP Rel 6      | HSUPA Subtest-5         | 18.30         | 18.14      | 18.38  | 19.00               | 18.56         | 18.79      | 18.99  | 19.50               | 22.32        | 22.43      | 22.32 | 23.00               |
| 3GPP Rel 7      | HSPA+ (16QAM) Subtest-1 | 19.05         | 19.15      | 19.18  | 20.00               | 18.34         | 18.33      | 18.38  | 19.00               | 22.21        | 22.25      | 22.19 | 23.00               |
| Attenuator      |                         |               | Cable Loss | 0.8    |                     |               | Cable Loss | 0.8    |                     |              | Cable Loss | 0.6   |                     |
| Mode            |                         |               | Max.       | 20.18  |                     |               | Max.       | 19.28  |                     |              | Max.       | 23.19 |                     |

| Band 2 (1900MHz Band)<br>Part 24E |            |         |           |             |                |              |                     |
|-----------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW (MHz)                          | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                           |            |         |           | 18700       | 18900          | 19100        |                     |
| Frequency (MHz)                   |            |         |           | 1860        | 1880           | 1900         |                     |
| 20                                | QPSK       | 1       | 0         | 20.61       | 20.64          | 20.58        | 21                  |
| 20                                | QPSK       | 1       | 49        | 20.59       | 20.53          | 20.46        |                     |
| 20                                | QPSK       | 1       | 99        | 20.53       | 20.49          | 20.47        |                     |
| 20                                | QPSK       | 50      | 0         | 19.36       | 19.45          | 19.38        | 20                  |
| 20                                | QPSK       | 50      | 24        | 19.37       | 19.42          | 19.42        |                     |
| 20                                | QPSK       | 50      | 50        | 19.42       | 19.38          | 19.44        |                     |
| 20                                | QPSK       | 100     | 0         | 19.35       | 19.44          | 19.40        | 20                  |
| 20                                | 16QAM      | 1       | 0         | 19.41       | 19.41          | 19.43        |                     |
| 20                                | 16QAM      | 1       | 49        | 19.25       | 19.55          | 19.51        |                     |
| 20                                | 16QAM      | 1       | 99        | 19.50       | 19.35          | 19.75        | 20                  |
| 20                                | 16QAM      | 50      | 0         | 19.43       | 19.40          | 19.38        |                     |
| 20                                | 16QAM      | 50      | 24        | 19.39       | 19.44          | 19.45        |                     |
| 20                                | 16QAM      | 50      | 50        | 19.47       | 19.44          | 19.51        | 20                  |
| 20                                | 16QAM      | 100     | 0         | 19.50       | 19.51          | 19.38        |                     |
| Channel                           |            |         |           | 18675       | 18900          | 19125        | Tune-up limit (dBm) |
| Frequency (MHz)                   |            |         |           | 1857.5      | 1880           | 1902.5       |                     |
| 15                                | QPSK       | 1       | 0         | 20.42       | 20.45          | 20.36        | 21                  |
| 15                                | QPSK       | 1       | 37        | 20.21       | 20.57          | 20.45        |                     |
| 15                                | QPSK       | 1       | 74        | 20.58       | 20.50          | 20.58        |                     |
| 15                                | QPSK       | 36      | 0         | 19.22       | 19.31          | 19.30        | 20                  |
| 15                                | QPSK       | 36      | 20        | 19.21       | 19.40          | 19.37        |                     |
| 15                                | QPSK       | 36      | 39        | 19.33       | 19.34          | 19.31        |                     |
| 15                                | QPSK       | 75      | 0         | 19.25       | 19.31          | 19.27        | 20                  |
| 15                                | 16QAM      | 1       | 0         | 19.34       | 19.42          | 19.36        |                     |
| 15                                | 16QAM      | 1       | 37        | 19.47       | 19.50          | 19.36        |                     |
| 15                                | 16QAM      | 1       | 74        | 19.42       | 19.54          | 19.54        | 20                  |
| 15                                | 16QAM      | 36      | 0         | 19.21       | 19.26          | 19.29        |                     |
| 15                                | 16QAM      | 36      | 20        | 19.30       | 19.23          | 19.36        |                     |
| 15                                | 16QAM      | 36      | 39        | 19.35       | 19.44          | 19.41        | 20                  |
| 15                                | 16QAM      | 75      | 0         | 19.22       | 19.24          | 19.33        |                     |
| Channel                           |            |         |           | 18650       | 18900          | 19150        | Tune-up limit (dBm) |
| Frequency (MHz)                   |            |         |           | 1855        | 1880           | 1905         |                     |
| 10                                | QPSK       | 1       | 0         | 20.39       | 20.25          | 20.48        | 21                  |
| 10                                | QPSK       | 1       | 25        | 20.50       | 20.59          | 20.48        |                     |
| 10                                | QPSK       | 1       | 49        | 20.39       | 20.47          | 20.39        |                     |
| 10                                | QPSK       | 25      | 0         | 19.33       | 19.34          | 19.30        | 20                  |
| 10                                | QPSK       | 25      | 12        | 19.29       | 19.41          | 19.34        |                     |
| 10                                | QPSK       | 25      | 25        | 19.20       | 19.33          | 19.29        |                     |
| 10                                | QPSK       | 50      | 0         | 19.26       | 19.35          | 19.33        | 20                  |
| 10                                | 16QAM      | 1       | 0         | 19.74       | 19.67          | 19.66        |                     |
| 10                                | 16QAM      | 1       | 25        | 19.43       | 19.39          | 19.46        |                     |
| 10                                | 16QAM      | 1       | 49        | 19.38       | 19.46          | 19.25        | 20                  |
| 10                                | 16QAM      | 25      | 0         | 19.28       | 19.27          | 19.24        |                     |
| 10                                | 16QAM      | 25      | 12        | 19.44       | 19.24          | 19.24        |                     |
| 10                                | 16QAM      | 25      | 25        | 19.24       | 19.44          | 19.54        | 20                  |
| 10                                | 16QAM      | 50      | 0         | 19.36       | 19.29          | 19.33        |                     |
| Channel                           |            |         |           | 18625       | 18900          | 19175        | Tune-up limit (dBm) |
| Frequency (MHz)                   |            |         |           | 1852.5      | 1880           | 1907.5       |                     |
| 5                                 | QPSK       | 1       | 0         | 20.53       | 20.58          | 20.52        | 21                  |
| 5                                 | QPSK       | 1       | 12        | 20.52       | 20.47          | 20.50        |                     |
| 5                                 | QPSK       | 1       | 24        | 20.48       | 20.56          | 20.57        |                     |
| 5                                 | QPSK       | 12      | 0         | 19.32       | 19.23          | 19.30        | 20                  |
| 5                                 | QPSK       | 12      | 7         | 19.33       | 19.38          | 19.30        |                     |
| 5                                 | QPSK       | 12      | 13        | 19.32       | 19.31          | 19.34        |                     |
| 5                                 | QPSK       | 25      | 0         | 19.31       | 19.29          | 19.31        | 20                  |
| 5                                 | 16QAM      | 1       | 0         | 19.44       | 19.34          | 19.72        |                     |
| 5                                 | 16QAM      | 1       | 12        | 19.42       | 19.35          | 19.72        |                     |
| 5                                 | 16QAM      | 1       | 24        | 19.45       | 19.32          | 19.71        | 20                  |
| 5                                 | 16QAM      | 12      | 0         | 19.54       | 19.68          | 19.54        |                     |
| 5                                 | 16QAM      | 12      | 7         | 19.44       | 19.44          | 19.24        |                     |
| 5                                 | 16QAM      | 12      | 13        | 19.24       | 19.57          | 19.34        | 20                  |
| 5                                 | 16QAM      | 25      | 0         | 19.34       | 19.35          | 19.33        |                     |
| Channel                           |            |         |           | 18615       | 18900          | 19185        | Tune-up limit (dBm) |
| Frequency (MHz)                   |            |         |           | 1851.5      | 1880           | 1908.5       |                     |
| 3                                 | QPSK       | 1       | 0         | 20.47       | 20.54          | 20.46        | 21                  |
| 3                                 | QPSK       | 1       | 8         | 20.57       | 20.42          | 20.43        |                     |
| 3                                 | QPSK       | 1       | 14        | 20.58       | 20.45          | 20.45        |                     |
| 3                                 | QPSK       | 8       | 0         | 19.20       | 19.15          | 19.17        | 20                  |
| 3                                 | QPSK       | 8       | 4         | 19.26       | 19.20          | 19.21        |                     |
| 3                                 | QPSK       | 8       | 7         | 19.26       | 19.20          | 19.16        |                     |
| 3                                 | QPSK       | 15      | 0         | 19.18       | 19.26          | 19.19        | 20                  |
| 3                                 | 16QAM      | 1       | 0         | 19.34       | 19.25          | 19.19        |                     |
| 3                                 | 16QAM      | 1       | 8         | 19.38       | 19.32          | 19.28        |                     |
| 3                                 | 16QAM      | 1       | 14        | 19.31       | 19.28          | 19.16        | 20                  |
| 3                                 | 16QAM      | 8       | 0         | 19.29       | 19.42          | 19.34        |                     |
| 3                                 | 16QAM      | 8       | 4         | 19.36       | 19.33          | 19.39        |                     |
| 3                                 | 16QAM      | 8       | 7         | 19.26       | 19.31          | 19.34        | 20                  |
| 3                                 | 16QAM      | 15      | 0         | 19.29       | 19.33          | 19.28        |                     |
| Channel                           |            |         |           | 18607       | 18900          | 19193        | Tune-up limit (dBm) |
| Frequency (MHz)                   |            |         |           | 1850.7      | 1880           | 1909.3       |                     |
| 1.4                               | QPSK       | 1       | 0         | 20.53       | 20.56          | 20.51        | 21                  |
| 1.4                               | QPSK       | 1       | 3         | 20.43       | 20.41          | 20.40        |                     |
| 1.4                               | QPSK       | 1       | 5         | 20.40       | 20.38          | 20.36        |                     |
| 1.4                               | QPSK       | 3       | 0         | 20.40       | 20.40          | 20.36        | 20                  |
| 1.4                               | QPSK       | 3       | 1         | 20.44       | 20.41          | 20.39        |                     |
| 1.4                               | QPSK       | 3       | 3         | 20.46       | 20.50          | 20.39        |                     |
| 1.4                               | QPSK       | 6       | 0         | 19.16       | 19.14          | 19.13        | 20                  |
| 1.4                               | 16QAM      | 1       | 0         | 19.19       | 19.19          | 19.13        |                     |
| 1.4                               | 16QAM      | 1       | 3         | 19.15       | 19.35          | 19.33        |                     |
| 1.4                               | 16QAM      | 1       | 5         | 19.03       | 19.23          | 18.91        | 20                  |
| 1.4                               | 16QAM      | 3       | 0         | 19.05       | 19.10          | 19.07        |                     |
| 1.4                               | 16QAM      | 3       | 1         | 19.23       | 19.05          | 19.10        |                     |
| 1.4                               | 16QAM      | 3       | 3         | 19.25       | 19.22          | 18.96        | 20                  |
| 1.4                               | 16QAM      | 6       | 0         | 19.26       | 19.19          | 19.14        |                     |

| Band 4 (AWS Band)<br>Part 27L (only on channel required) |            |         |           |                                                                           |                                            |              |                     |    |
|----------------------------------------------------------|------------|---------|-----------|---------------------------------------------------------------------------|--------------------------------------------|--------------|---------------------|----|
| BW [MHz]                                                 | Modulation | RB Size | RB Offset | Low Channel                                                               | Middle Channel                             | High Channel | Tune-up limit (dBm) |    |
| Channel                                                  |            |         |           | 20050                                                                     | 20175                                      | 20300        |                     |    |
| Frequency (MHz)                                          |            |         |           | 1720                                                                      | 1732.5                                     | 1745         | 20                  |    |
| 20                                                       | QPSK       | 1       | 0         | 19.26                                                                     | 19.34                                      | 19.33        |                     |    |
| 20                                                       | QPSK       | 1       | 49        | 19.12                                                                     | 19.20                                      | 19.19        |                     |    |
| 20                                                       | QPSK       | 1       | 99        | 19.04                                                                     | 19.17                                      | 19.29        |                     |    |
| 20                                                       | QPSK       | 50      | 0         | 18.33                                                                     | 18.46                                      | 18.43        |                     |    |
| Channel                                                  |            |         |           | 1833                                                                      | 1841                                       | 1841         | 19                  |    |
| 20                                                       | QPSK       | 50      | 24        | 18.33                                                                     | 18.33                                      | 18.34        |                     |    |
| 20                                                       | QPSK       | 100     | 0         | 18.32                                                                     | 18.48                                      | 18.43        |                     |    |
| Channel                                                  |            |         |           | 1819 <th>1849<th>1836</th><th rowspan="5">19</th></th>                    | 1849 <th>1836</th> <th rowspan="5">19</th> | 1836         | 19                  |    |
| 20                                                       | 16QAM      | 1       | 0         | 18.19                                                                     | 18.49                                      | 18.36        |                     |    |
| 20                                                       | 16QAM      | 1       | 49        | 18.34                                                                     | 18.11                                      | 18.25        |                     |    |
| 20                                                       | 16QAM      | 1       | 99        | 18.13                                                                     | 18.35                                      | 18.19        |                     |    |
| 20                                                       | 16QAM      | 50      | 0         | 18.32                                                                     | 18.25                                      | 18.39        |                     |    |
| Channel                                                  |            |         |           | 1858 <th>1869</th> <th>1858</th> <th rowspan="3">19</th>                  | 1869                                       | 1858         | 19                  |    |
| 20                                                       | 16QAM      | 50      | 24        | 18.58                                                                     | 18.69                                      | 18.58        |                     |    |
| 20                                                       | 16QAM      | 50      | 50        | 18.54                                                                     | 18.55                                      | 18.55        |                     |    |
| Channel                                                  |            |         |           | 1856 <th>1864</th> <th>1865</th> <th rowspan="5">Tune-up limit (dBm)</th> | 1864                                       | 1865         | Tune-up limit (dBm) |    |
| 20                                                       | 16QAM      | 100     | 0         | 18.56                                                                     | 18.64                                      | 18.65        |                     |    |
| Channel                                                  |            |         |           | 20025                                                                     | 20175                                      | 20325        |                     |    |
| Frequency (MHz)                                          |            |         |           | 1717.5                                                                    | 1732.5                                     | 1747.5       |                     | 20 |
| 15                                                       | QPSK       | 1       | 0         | 19.13                                                                     | 19.17                                      | 19.27        |                     |    |
| 15                                                       | QPSK       | 1       | 37        | 19.17                                                                     | 19.26                                      | 19.18        |                     |    |
| 15                                                       | QPSK       | 1       | 74        | 19.04                                                                     | 19.26                                      | 19.29        |                     |    |
| 15                                                       | QPSK       | 36      | 0         | 18.27                                                                     | 18.34                                      | 18.37        |                     |    |
| Channel                                                  |            |         |           | 1831 <th>1844</th> <th>1840</th> <th rowspan="3">19</th>                  | 1844                                       | 1840         | 19                  |    |
| 15                                                       | QPSK       | 36      | 20        | 18.31                                                                     | 18.44                                      | 18.40        |                     |    |
| 15                                                       | QPSK       | 36      | 39        | 18.36                                                                     | 18.35                                      | 18.44        |                     |    |
| Channel                                                  |            |         |           | 1831 <th>1833</th> <th>1834</th> <th rowspan="3">19</th>                  | 1833                                       | 1834         | 19                  |    |
| 15                                                       | QPSK       | 75      | 0         | 18.31                                                                     | 18.33                                      | 18.34        |                     |    |
| 15                                                       | 16QAM      | 1       | 0         | 18.25                                                                     | 18.47                                      | 18.19        |                     |    |
| Channel                                                  |            |         |           | 1833 <th>1833</th> <th>1817</th> <th rowspan="3">19</th>                  | 1833                                       | 1817         | 19                  |    |
| 15                                                       | 16QAM      | 1       | 37        | 18.33                                                                     | 18.33                                      | 18.17        |                     |    |
| 15                                                       | 16QAM      | 1       | 74        | 18.19                                                                     | 18.49                                      | 18.28        |                     |    |
| Channel                                                  |            |         |           | 1820 <th>1822</th> <th>1841</th> <th rowspan="5">19</th>                  | 1822                                       | 1841         | 19                  |    |
| 15                                                       | 16QAM      | 36      | 0         | 18.20                                                                     | 18.22                                      | 18.41        |                     |    |
| 15                                                       | 16QAM      | 36      | 20        | 18.15                                                                     | 18.22                                      | 18.28        |                     |    |
| 15                                                       | 16QAM      | 36      | 39        | 18.11                                                                     | 18.20                                      | 18.26        |                     |    |
| 15                                                       | 16QAM      | 75      | 0         | 18.22                                                                     | 18.23                                      | 18.32        |                     |    |
| Channel                                                  |            |         |           | 20000                                                                     | 20175                                      | 20350        | Tune-up limit (dBm) |    |
| Frequency (MHz)                                          |            |         |           | 1715                                                                      | 1732.5                                     | 1750         |                     |    |
| Channel                                                  |            |         |           | 1905 <th>1924</th> <th>1907</th> <th rowspan="5">20</th>                  | 1924                                       | 1907         | 20                  |    |
| 10                                                       | QPSK       | 1       | 0         | 19.05                                                                     | 19.24                                      | 19.07        |                     |    |
| 10                                                       | QPSK       | 1       | 25        | 19.03                                                                     | 19.16                                      | 19.17        |                     |    |
| 10                                                       | QPSK       | 1       | 49        | 19.11                                                                     | 18.94                                      | 19.17        |                     |    |
| 10                                                       | QPSK       | 25      | 0         | 18.10                                                                     | 18.32                                      | 18.34        |                     |    |
| Channel                                                  |            |         |           | 1822 <th>1828</th> <th>1832</th> <th rowspan="3">19</th>                  | 1828                                       | 1832         | 19                  |    |
| 10                                                       | QPSK       | 25      | 12        | 18.22                                                                     | 18.28                                      | 18.32        |                     |    |
| 10                                                       | QPSK       | 25      | 25        | 18.11                                                                     | 18.22                                      | 18.29        |                     |    |
| Channel                                                  |            |         |           | 1817 <th>1827</th> <th>1819</th> <th rowspan="3">19</th>                  | 1827                                       | 1819         | 19                  |    |
| 10                                                       | QPSK       | 50      | 0         | 18.17                                                                     | 18.27                                      | 18.19        |                     |    |
| 10                                                       | 16QAM      | 1       | 0         | 18.16                                                                     | 18.31                                      | 18.07        |                     |    |
| Channel                                                  |            |         |           | 1843 <th>1817</th> <th>1849</th> <th rowspan="3">19</th>                  | 1817                                       | 1849         | 19                  |    |
| 10                                                       | 16QAM      | 1       | 25        | 18.43                                                                     | 18.17                                      | 18.49        |                     |    |
| 10                                                       | 16QAM      | 1       | 49        | 18.50                                                                     | 18.40                                      | 18.39        |                     |    |
| Channel                                                  |            |         |           | 1816 <th>1815</th> <th>1814</th> <th rowspan="5">19</th>                  | 1815                                       | 1814         | 19                  |    |
| 10                                                       | 16QAM      | 25      | 0         | 18.16                                                                     | 18.15                                      | 18.14        |                     |    |
| 10                                                       | 16QAM      | 25      | 12        | 18.08                                                                     | 18.18                                      | 18.15        |                     |    |
| 10                                                       | 16QAM      | 25      | 25        | 18.42                                                                     | 18.33                                      | 18.42        |                     |    |
| 10                                                       | 16QAM      | 50      | 0         | 18.36                                                                     | 18.40                                      | 18.52        |                     |    |
| Channel                                                  |            |         |           | 19975                                                                     | 20175                                      | 20375        | Tune-up limit (dBm) |    |
| Frequency (MHz)                                          |            |         |           | 1712.5                                                                    | 1732.5                                     | 1752.5       |                     |    |
| Channel                                                  |            |         |           | 1895 <th>1917<th>1922</th><th rowspan="5">20</th></th>                    | 1917 <th>1922</th> <th rowspan="5">20</th> | 1922         | 20                  |    |
| 5                                                        | QPSK       | 1       | 0         | 18.95                                                                     | 19.17                                      | 19.22        |                     |    |
| 5                                                        | QPSK       | 1       | 12        | 19.01                                                                     | 19.16                                      | 19.13        |                     |    |
| 5                                                        | QPSK       | 1       | 24        | 18.96                                                                     | 19.08                                      | 19.07        |                     |    |
| 5                                                        | QPSK       | 12      | 0         | 18.18                                                                     | 18.18                                      | 18.22        |                     |    |
| Channel                                                  |            |         |           | 1818 <th>1829</th> <th>1826</th> <th rowspan="3">19</th>                  | 1829                                       | 1826         | 19                  |    |
| 5                                                        | QPSK       | 12      | 7         | 18.18                                                                     | 18.30                                      | 18.22        |                     |    |
| 5                                                        | QPSK       | 25      | 0         | 18.16                                                                     | 18.20                                      | 18.26        |                     |    |
| Channel                                                  |            |         |           | 1806 <th>1847</th> <th>1815</th> <th rowspan="3">19</th>                  | 1847                                       | 1815         | 19                  |    |
| 5                                                        | 16QAM      | 1       | 0         | 18.06                                                                     | 18.47                                      | 18.15        |                     |    |
| 5                                                        | 16QAM      | 1       | 12        | 18.17                                                                     | 18.52                                      | 18.11        |                     |    |
| Channel                                                  |            |         |           | 1811 <th>1846</th> <th>1806</th> <th rowspan="5">19</th>                  | 1846                                       | 1806         | 19                  |    |
| 5                                                        | 16QAM      | 1       | 24        | 18.11                                                                     | 18.46                                      | 18.06        |                     |    |
| 5                                                        | 16QAM      | 12      | 0         | 18.10                                                                     | 18.04                                      | 18.07        |                     |    |
| 5                                                        | 16QAM      | 12      | 7         | 18.13                                                                     | 18.17                                      | 18.15        |                     |    |
| 5                                                        | 16QAM      | 12      | 13        | 18.40                                                                     | 18.47                                      | 18.51        |                     |    |
| Channel                                                  |            |         |           | 1841 <th>1852</th> <th>1845</th> <th rowspan="5">Tune-up limit (dBm)</th> | 1852                                       | 1845         | Tune-up limit (dBm) |    |
| 5                                                        | 16QAM      | 25      | 0         | 18.41                                                                     | 18.52                                      | 18.45        |                     |    |
| Channel                                                  |            |         |           | 19965                                                                     | 20175                                      | 20385        |                     |    |
| Frequency (MHz)                                          |            |         |           | 1711.5                                                                    | 1732.5                                     | 1753.5       |                     | 20 |
| 3                                                        | QPSK       | 1       | 0         | 19.07                                                                     | 19.08                                      | 19.20        |                     |    |
| 3                                                        | QPSK       | 1       | 8         | 19.16                                                                     | 19.30                                      | 19.24        |                     |    |
| 3                                                        | QPSK       | 1       | 14        | 18.96                                                                     | 19.15                                      | 19.15        |                     |    |
| 3                                                        | QPSK       | 8       | 0         | 18.16                                                                     | 18.22                                      | 18.23        |                     |    |
| Channel                                                  |            |         |           | 1822 <th>1830</th> <th>1832</th> <th rowspan="3">19</th>                  | 1830                                       | 1832         | 19                  |    |
| 3                                                        | QPSK       | 8       | 4         | 18.22                                                                     | 18.30                                      | 18.32        |                     |    |
| 3                                                        | QPSK       | 8       | 7         | 18.18                                                                     | 18.28                                      | 18.28        |                     |    |
| Channel                                                  |            |         |           | 1818 <th>1824</th> <th>1818</th> <th rowspan="3">19</th>                  | 1824                                       | 1818         | 19                  |    |
| 3                                                        | QPSK       | 15      | 0         | 18.18                                                                     | 18.24                                      | 18.18        |                     |    |
| 3                                                        | 16QAM      | 1       | 0         | 18.26                                                                     | 18.35                                      | 18.39        |                     |    |
| Channel                                                  |            |         |           | 1848 <th>1848</th> <th>1822</th> <th rowspan="3">19</th>                  | 1848                                       | 1822         | 19                  |    |
| 3                                                        | 16QAM      | 1       | 8         | 18.48                                                                     | 18.48                                      | 18.22        |                     |    |
| 3                                                        | 16QAM      | 1       | 14        | 18.39                                                                     | 18.17                                      | 18.25        |                     |    |
| Channel                                                  |            |         |           | 1818 <th>1819</th> <th>1828</th> <th rowspan="5">19</th>                  | 1819                                       | 1828         | 19                  |    |
| 3                                                        | 16QAM      | 8       | 0         | 18.18                                                                     | 18.19                                      | 18.28        |                     |    |
| 3                                                        | 16QAM      | 8       | 4         | 18.28                                                                     | 18.28                                      | 18.29        |                     |    |
| 3                                                        | 16QAM      | 8       | 7         | 18.50                                                                     | 18.58                                      | 18.62        |                     |    |
| 3                                                        | 16QAM      | 15      | 0         | 18.50                                                                     | 18.48                                      | 18.55        |                     |    |
| Channel                                                  |            |         |           | 19957                                                                     | 20175                                      | 20393        | Tune-up limit (dBm) |    |
| Frequency (MHz)                                          |            |         |           | 1710.7                                                                    | 1732.5                                     | 1754.3       |                     |    |
| 1.4                                                      | QPSK       | 1       | 0         | 18.82                                                                     | 19.03                                      | 19.04        | 20                  |    |
| 1.4                                                      | QPSK       | 1       | 3         | 19.16                                                                     | 19.16                                      | 19.20        |                     |    |
| 1.4                                                      | QPSK       | 1       | 5         | 19.02                                                                     | 19.11                                      | 19.13        |                     |    |
| 1.4                                                      | QPSK       | 3       | 0         | 19.10                                                                     | 19.07                                      | 19.06        |                     |    |
| 1.4                                                      | QPSK       | 3       | 1         | 19.06                                                                     | 19.16                                      | 19.21        |                     |    |
| Channel                                                  |            |         |           | 1905 <th>1912</th> <th>1911</th> <th rowspan="5">19</th>                  | 1912                                       | 1911         | 19                  |    |
| 1.4                                                      | QPSK       | 3       | 3         | 19.05                                                                     | 19.12                                      | 19.11        |                     |    |
| 1.4                                                      | QPSK       | 6       | 0         | 18.21                                                                     | 18.23                                      | 18.19        |                     |    |
| 1.4                                                      | 16QAM      | 1       | 0         | 18.15                                                                     | 18.62                                      | 18.28        |                     |    |
| 1.4                                                      | 16QAM      | 1       | 3         | 18.28                                                                     | 18.36                                      | 18.40        |                     |    |
| Channel                                                  |            |         |           | 1834 <th>1850</th> <th>1830</th> <th rowspan="3">19</th>                  | 1850                                       | 1830         | 19                  |    |
| 1.4                                                      | 16QAM      | 1       | 5         | 18.34                                                                     | 18.50                                      | 18.30        |                     |    |
| 1.4                                                      | 16QAM      | 3       | 0         | 18.37                                                                     | 18.41                                      | 18.32        |                     |    |
| Channel                                                  |            |         |           | 1838 <th>1841</th> <th>1843</th> <th rowspan="3">19</th>                  | 1841                                       | 1843         | 19                  |    |
| 1.4                                                      | 16QAM      | 3       | 1         | 18.38                                                                     | 18.41                                      | 18.43        |                     |    |
| 1.4                                                      | 16QAM      | 3       | 3         | 18.37                                                                     | 18.49                                      | 18.38        |                     |    |
| Channel                                                  |            |         |           | 1828 <th>1829</th> <th>1820</th> <th rowspan="2">19</th>                  | 1829                                       | 1820         | 19                  |    |
| 1.4                                                      | 16QAM      | 6       | 0         | 18.28                                                                     | 18.29                                      | 18.20        |                     |    |

| Band 5 (Celluar Band)<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         | 23.10       | 23.14          | 23.13        | 24                  |  |  |
| 10                                                          | QPSK       | 1       | 25        | 22.96       | 22.99          | 22.79        |                     |  |  |
| 10                                                          | QPSK       | 1       | 49        | 22.88       | 23.00          | 22.68        |                     |  |  |
| 10                                                          | QPSK       | 25      | 0         | 22.41       | 22.43          | 22.24        | 23                  |  |  |
| 10                                                          | QPSK       | 25      | 12        | 22.17       | 22.19          | 22.24        |                     |  |  |
| 10                                                          | QPSK       | 25      | 25        | 22.17       | 22.28          | 22.33        |                     |  |  |
| 10                                                          | QPSK       | 50      | 0         | 22.23       | 22.36          | 22.25        | 23                  |  |  |
| 10                                                          | 16QAM      | 1       | 0         | 22.27       | 22.46          | 22.17        |                     |  |  |
| 10                                                          | 16QAM      | 1       | 25        | 22.50       | 22.53          | 22.21        |                     |  |  |
| 10                                                          | 16QAM      | 1       | 49        | 22.33       | 22.39          | 22.46        | 23                  |  |  |
| 10                                                          | 16QAM      | 25      | 0         | 22.42       | 22.43          | 22.25        |                     |  |  |
| 10                                                          | 16QAM      | 25      | 12        | 22.36       | 22.44          | 22.22        |                     |  |  |
| 10                                                          | 16QAM      | 25      | 25        | 22.39       | 22.32          | 22.35        | 23                  |  |  |
| 10                                                          | 16QAM      | 50      | 0         | 22.40       | 22.31          | 22.21        |                     |  |  |
| Channel                                                     |            |         |           | 20425       | 20525          | 20625        | Tune-up limit (dBm) |  |  |
| Frequency (MHz)                                             |            |         |           | 826.5       | 836.5          | 846.5        |                     |  |  |
| 5                                                           | QPSK       | 1       | 0         | 23.05       | 23.01          | 22.99        | 24                  |  |  |
| 5                                                           | QPSK       | 1       | 12        | 22.95       | 23.06          | 22.90        |                     |  |  |
| 5                                                           | QPSK       | 1       | 24        | 22.95       | 22.90          | 22.90        |                     |  |  |
| 5                                                           | QPSK       | 12      | 0         | 22.32       | 22.37          | 22.23        | 23                  |  |  |
| 5                                                           | QPSK       | 12      | 7         | 22.39       | 22.40          | 22.32        |                     |  |  |
| 5                                                           | QPSK       | 12      | 13        | 22.44       | 22.28          | 22.23        |                     |  |  |
| 5                                                           | QPSK       | 25      | 0         | 22.35       | 22.31          | 22.23        | 23                  |  |  |
| 5                                                           | 16QAM      | 1       | 0         | 22.64       | 22.57          | 22.33        |                     |  |  |
| 5                                                           | 16QAM      | 1       | 12        | 22.34       | 22.56          | 22.32        |                     |  |  |
| 5                                                           | 16QAM      | 1       | 24        | 22.21       | 22.56          | 22.39        | 23                  |  |  |
| 5                                                           | 16QAM      | 12      | 0         | 22.30       | 22.39          | 22.38        |                     |  |  |
| 5                                                           | 16QAM      | 12      | 7         | 22.37       | 22.40          | 22.22        |                     |  |  |
| 5                                                           | 16QAM      | 12      | 13        | 22.37       | 22.28          | 22.33        | 23                  |  |  |
| 5                                                           | 16QAM      | 25      | 0         | 22.38       | 22.43          | 22.38        |                     |  |  |
| Channel                                                     |            |         |           | 20415       | 20525          | 20635        | Tune-up limit (dBm) |  |  |
| Frequency (MHz)                                             |            |         |           | 825.5       | 836.5          | 847.5        |                     |  |  |
| 3                                                           | QPSK       | 1       | 0         | 22.74       | 23.05          | 22.90        | 24                  |  |  |
| 3                                                           | QPSK       | 1       | 8         | 23.00       | 23.01          | 22.92        |                     |  |  |
| 3                                                           | QPSK       | 1       | 14        | 23.01       | 22.99          | 22.73        |                     |  |  |
| 3                                                           | QPSK       | 8       | 0         | 22.25       | 22.38          | 22.36        | 23                  |  |  |
| 3                                                           | QPSK       | 8       | 4         | 22.39       | 22.45          | 22.42        |                     |  |  |
| 3                                                           | QPSK       | 8       | 7         | 22.34       | 22.36          | 22.23        |                     |  |  |
| 3                                                           | QPSK       | 15      | 0         | 22.32       | 22.38          | 22.37        | 23                  |  |  |
| 3                                                           | 16QAM      | 1       | 0         | 22.34       | 22.45          | 22.52        |                     |  |  |
| 3                                                           | 16QAM      | 1       | 8         | 22.27       | 22.53          | 22.37        |                     |  |  |
| 3                                                           | 16QAM      | 1       | 14        | 22.32       | 22.58          | 22.33        | 23                  |  |  |
| 3                                                           | 16QAM      | 8       | 0         | 22.28       | 22.37          | 22.11        |                     |  |  |
| 3                                                           | 16QAM      | 8       | 4         | 22.44       | 22.55          | 22.12        |                     |  |  |
| 3                                                           | 16QAM      | 8       | 7         | 22.36       | 22.42          | 22.16        | 23                  |  |  |
| 3                                                           | 16QAM      | 15      | 0         | 22.30       | 22.32          | 21.87        |                     |  |  |
| Channel                                                     |            |         |           | 20407       | 20525          | 20643        | Tune-up limit (dBm) |  |  |
| Frequency (MHz)                                             |            |         |           | 824.7       | 836.5          | 848.3        |                     |  |  |
| 1.4                                                         | QPSK       | 1       | 0         | 22.95       | 23.02          | 23.06        | 24                  |  |  |
| 1.4                                                         | QPSK       | 1       | 3         | 23.08       | 23.01          | 23.08        |                     |  |  |
| 1.4                                                         | QPSK       | 1       | 5         | 22.97       | 22.91          | 22.92        |                     |  |  |
| 1.4                                                         | QPSK       | 3       | 0         | 22.98       | 23.04          | 23.00        | 23                  |  |  |
| 1.4                                                         | QPSK       | 3       | 1         | 23.04       | 22.91          | 23.01        |                     |  |  |
| 1.4                                                         | QPSK       | 3       | 3         | 23.05       | 22.97          | 22.97        |                     |  |  |
| 1.4                                                         | QPSK       | 6       | 0         | 22.30       | 22.29          | 22.28        | 23                  |  |  |
| 1.4                                                         | 16QAM      | 1       | 0         | 22.43       | 22.24          | 22.41        |                     |  |  |
| 1.4                                                         | 16QAM      | 1       | 3         | 22.23       | 22.47          | 22.36        |                     |  |  |
| 1.4                                                         | 16QAM      | 1       | 5         | 22.62       | 22.30          | 22.36        | 23                  |  |  |
| 1.4                                                         | 16QAM      | 3       | 0         | 22.15       | 22.13          | 22.27        |                     |  |  |
| 1.4                                                         | 16QAM      | 3       | 1         | 22.18       | 22.45          | 22.31        |                     |  |  |
| 1.4                                                         | 16QAM      | 3       | 3         | 22.26       | 22.37          | 22.25        | 23                  |  |  |
| 1.4                                                         | 16QAM      | 6       | 0         | 22.45       | 22.32          | 22.36        |                     |  |  |

| Band 12 (700MHz Low Band)<br>Part 27F(only on channel required) |            |         |           |             |                |              |                     |
|-----------------------------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                                        | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dbm) |
| Channel                                                         |            |         |           | 23060       | 23095          | 23130        |                     |
| Frequency (MHz)                                                 |            |         |           | 704         | 707.5          | 711          | 24                  |
| 10                                                              | QPSK       | 1       | 0         | 23.21       | 23.37          | 23.26        |                     |
| 10                                                              | QPSK       | 1       | 25        | 23.07       | 23.20          | 23.23        |                     |
| 10                                                              | QPSK       | 1       | 49        | 23.17       | 23.18          | 23.17        |                     |
| 10                                                              | QPSK       | 25      | 0         | 22.46       | 22.56          | 22.47        | 23                  |
| 10                                                              | QPSK       | 25      | 12        | 22.43       | 22.37          | 22.16        |                     |
| 10                                                              | QPSK       | 25      | 25        | 22.48       | 22.54          | 22.47        |                     |
| 10                                                              | QPSK       | 50      | 0         | 22.49       | 22.59          | 22.42        |                     |
| 10                                                              | 16QAM      | 1       | 0         | 22.42       | 21.97          | 22.10        | 23                  |
| 10                                                              | 16QAM      | 1       | 25        | 22.17       | 22.12          | 22.26        |                     |
| 10                                                              | 16QAM      | 1       | 49        | 22.26       | 22.31          | 22.20        |                     |
| 10                                                              | 16QAM      | 25      | 0         | 22.15       | 22.17          | 22.11        |                     |
| 10                                                              | 16QAM      | 25      | 12        | 22.19       | 22.23          | 22.12        | 23                  |
| 10                                                              | 16QAM      | 25      | 25        | 22.24       | 22.25          | 22.19        |                     |
| 10                                                              | 16QAM      | 50      | 0         | 22.14       | 22.22          | 22.27        |                     |
| Channel                                                         |            |         |           | 23035       | 23095          | 23155        |                     |
| Frequency (MHz)                                                 |            |         |           | 701.5       | 707.5          | 713.5        |                     |
| 5                                                               | QPSK       | 1       | 0         | 22.96       | 23.29          | 23.07        | 24                  |
| 5                                                               | QPSK       | 1       | 12        | 23.12       | 23.28          | 23.12        |                     |
| 5                                                               | QPSK       | 1       | 24        | 23.08       | 23.27          | 23.13        |                     |
| 5                                                               | QPSK       | 12      | 0         | 22.19       | 22.26          | 22.25        |                     |
| 5                                                               | QPSK       | 12      | 7         | 22.30       | 22.32          | 22.29        | 23                  |
| 5                                                               | QPSK       | 12      | 13        | 22.25       | 22.28          | 22.25        |                     |
| 5                                                               | QPSK       | 25      | 0         | 22.21       | 22.33          | 22.29        |                     |
| 5                                                               | 16QAM      | 1       | 0         | 22.22       | 22.24          | 22.26        |                     |
| 5                                                               | 16QAM      | 1       | 12        | 22.39       | 22.34          | 22.35        | 23                  |
| 5                                                               | 16QAM      | 1       | 24        | 22.35       | 22.33          | 22.29        |                     |
| 5                                                               | 16QAM      | 12      | 0         | 22.09       | 22.06          | 22.09        |                     |
| 5                                                               | 16QAM      | 12      | 7         | 22.23       | 22.28          | 22.12        |                     |
| 5                                                               | 16QAM      | 12      | 13        | 22.18       | 22.15          | 22.20        | 23                  |
| 5                                                               | 16QAM      | 25      | 0         | 22.19       | 22.15          | 22.17        |                     |
| Channel                                                         |            |         |           | 23025       | 23095          | 23165        | Tune-up limit (dbm) |
| Frequency (MHz)                                                 |            |         |           | 700.5       | 707.5          | 714.5        |                     |
| 3                                                               | QPSK       | 1       | 0         | 23.04       | 23.31          | 22.98        | 24                  |
| 3                                                               | QPSK       | 1       | 8         | 23.22       | 23.21          | 23.11        |                     |
| 3                                                               | QPSK       | 1       | 14        | 23.16       | 23.27          | 23.22        |                     |
| 3                                                               | QPSK       | 8       | 0         | 22.27       | 22.25          | 22.25        |                     |
| 3                                                               | QPSK       | 8       | 4         | 22.30       | 22.33          | 22.34        | 23                  |
| 3                                                               | QPSK       | 8       | 7         | 22.25       | 22.33          | 22.27        |                     |
| 3                                                               | QPSK       | 15      | 0         | 22.03       | 22.11          | 21.97        |                     |
| 3                                                               | 16QAM      | 1       | 0         | 22.04       | 22.40          | 21.99        |                     |
| 3                                                               | 16QAM      | 1       | 8         | 22.24       | 22.22          | 22.17        | 23                  |
| 3                                                               | 16QAM      | 1       | 14        | 22.07       | 22.12          | 21.98        |                     |
| 3                                                               | 16QAM      | 8       | 0         | 22.04       | 21.93          | 21.96        |                     |
| 3                                                               | 16QAM      | 8       | 4         | 22.09       | 22.06          | 22.17        |                     |
| 3                                                               | 16QAM      | 8       | 7         | 21.93       | 21.96          | 22.02        | 23                  |
| 3                                                               | 16QAM      | 15      | 0         | 22.12       | 22.05          | 22.04        |                     |
| Channel                                                         |            |         |           | 23017       | 23095          | 23173        | Tune-up limit (dbm) |
| Frequency (MHz)                                                 |            |         |           | 699.7       | 707.5          | 715.3        |                     |
| 1.4                                                             | QPSK       | 1       | 0         | 23.07       | 23.24          | 23.04        | 24                  |
| 1.4                                                             | QPSK       | 1       | 3         | 23.18       | 23.17          | 23.19        |                     |
| 1.4                                                             | QPSK       | 1       | 5         | 23.07       | 23.12          | 23.08        |                     |
| 1.4                                                             | QPSK       | 3       | 0         | 23.02       | 23.15          | 23.13        |                     |
| 1.4                                                             | QPSK       | 3       | 1         | 23.23       | 23.23          | 22.90        | 23                  |
| 1.4                                                             | QPSK       | 3       | 3         | 23.18       | 23.20          | 23.16        |                     |
| 1.4                                                             | QPSK       | 6       | 0         | 22.24       | 22.21          | 22.19        |                     |
| 1.4                                                             | 16QAM      | 1       | 0         | 22.28       | 22.22          | 22.07        |                     |
| 1.4                                                             | 16QAM      | 1       | 3         | 22.09       | 22.52          | 22.19        | 23                  |
| 1.4                                                             | 16QAM      | 1       | 5         | 22.21       | 22.22          | 22.21        |                     |
| 1.4                                                             | 16QAM      | 3       | 0         | 22.05       | 22.08          | 22.09        |                     |
| 1.4                                                             | 16QAM      | 3       | 1         | 22.21       | 22.29          | 22.13        |                     |
| 1.4                                                             | 16QAM      | 3       | 3         | 22.04       | 22.18          | 22.18        | 23                  |
| 1.4                                                             | 16QAM      | 6       | 0         | 21.97       | 22.17          | 22.07        |                     |

| Band 13(700MHz Band)<br>Part 27F |            |         |           |             |                |              |                        |
|----------------------------------|------------|---------|-----------|-------------|----------------|--------------|------------------------|
| BW [MHz]                         | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit<br>(dBm) |
| Channel                          |            |         |           | 23230       |                |              |                        |
| Frequency (MHz)                  |            |         |           | 782         |                |              | 24                     |
| 10                               | QPSK       | 1       | 0         |             | 23.21          |              |                        |
| 10                               | QPSK       | 1       | 25        |             | 23.19          |              |                        |
| 10                               | QPSK       | 1       | 49        |             | 23.05          |              |                        |
| 10                               | QPSK       | 25      | 0         |             | 22.34          |              | 23                     |
| 10                               | QPSK       | 25      | 12        |             | 22.21          |              |                        |
| 10                               | QPSK       | 25      | 25        |             | 22.30          |              |                        |
| 10                               | QPSK       | 50      | 0         |             | 22.31          |              |                        |
| 10                               | 16QAM      | 1       | 0         |             | 22.20          |              | 23                     |
| 10                               | 16QAM      | 1       | 25        |             | 22.11          |              |                        |
| 10                               | 16QAM      | 1       | 49        |             | 22.50          |              |                        |
| 10                               | 16QAM      | 25      | 0         |             | 22.14          |              |                        |
| 10                               | 16QAM      | 25      | 12        |             | 22.01          |              | 23                     |
| 10                               | 16QAM      | 25      | 25        |             | 22.22          |              |                        |
| 10                               | 16QAM      | 50      | 0         |             | 22.17          |              |                        |
| Channel                          |            |         |           | 23205       | 23230          | 23255        | Tune-up limit<br>(dBm) |
| Frequency (MHz)                  |            |         |           | 779.5       | 782            | 784.5        |                        |
| 5                                | QPSK       | 1       | 0         | 23.03       | 23.12          | 23.12        | 24                     |
| 5                                | QPSK       | 1       | 12        | 23.13       | 23.10          | 23.14        |                        |
| 5                                | QPSK       | 1       | 24        | 23.07       | 23.14          | 23.14        |                        |
| 5                                | QPSK       | 12      | 0         | 22.06       | 22.15          | 22.17        |                        |
| 5                                | QPSK       | 12      | 7         | 22.14       | 22.21          | 22.16        | 23                     |
| 5                                | QPSK       | 12      | 13        | 22.17       | 22.20          | 22.24        |                        |
| 5                                | QPSK       | 25      | 0         | 22.23       | 22.16          | 22.18        |                        |
| 5                                | 16QAM      | 1       | 0         | 22.39       | 22.50          | 22.57        |                        |
| 5                                | 16QAM      | 1       | 12        | 22.21       | 22.32          | 22.30        | 23                     |
| 5                                | 16QAM      | 1       | 24        | 22.25       | 22.25          | 22.47        |                        |
| 5                                | 16QAM      | 12      | 0         | 22.05       | 22.16          | 22.18        |                        |
| 5                                | 16QAM      | 12      | 7         | 22.12       | 22.15          | 22.14        |                        |
| 5                                | 16QAM      | 12      | 13        | 22.18       | 22.16          | 22.05        | 23                     |
| 5                                | 16QAM      | 25      | 0         | 22.13       | 22.21          | 22.13        |                        |

| Band 17 (700MHz Band)<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          | 24                  |
| 10                                                          | QPSK       | 1       | 0         | 23.28       | 23.31          | 23.28        |                     |
| 10                                                          | QPSK       | 1       | 25        | 23.16       | 23.12          | 23.18        |                     |
| 10                                                          | QPSK       | 1       | 49        | 23.09       | 23.12          | 23.07        |                     |
| 10                                                          | QPSK       | 25      | 0         | 22.39       | 22.45          | 22.37        | 23                  |
| 10                                                          | QPSK       | 25      | 12        | 22.24       | 22.18          | 22.32        |                     |
| 10                                                          | QPSK       | 25      | 25        | 22.22       | 22.22          | 22.31        |                     |
| 10                                                          | QPSK       | 50      | 0         | 22.35       | 22.22          | 22.23        |                     |
| 10                                                          | 16QAM      | 1       | 0         | 21.87       | 22.06          | 22.20        | 23                  |
| 10                                                          | 16QAM      | 1       | 25        | 22.08       | 22.37          | 22.21        |                     |
| 10                                                          | 16QAM      | 1       | 49        | 22.04       | 22.29          | 22.34        |                     |
| 10                                                          | 16QAM      | 25      | 0         | 21.98       | 22.22          | 22.21        |                     |
| 10                                                          | 16QAM      | 25      | 12        | 22.04       | 22.19          | 22.17        | 23                  |
| 10                                                          | 16QAM      | 25      | 25        | 21.87       | 22.13          | 22.18        |                     |
| 10                                                          | 16QAM      | 50      | 0         | 21.91       | 22.20          | 22.17        |                     |
| Channel                                                     |            |         |           | 23755       | 23790          | 23825        | Tune-up limit (dBm) |
| Frequency (MHz)                                             |            |         |           | 706.5       | 710            | 713.5        |                     |
| 5                                                           | QPSK       | 1       | 0         | 23.22       | 23.18          | 23.14        | 24                  |
| 5                                                           | QPSK       | 1       | 12        | 23.21       | 23.17          | 23.16        |                     |
| 5                                                           | QPSK       | 1       | 24        | 23.13       | 23.19          | 23.18        |                     |
| 5                                                           | QPSK       | 12      | 0         | 22.29       | 22.47          | 22.63        |                     |
| 5                                                           | QPSK       | 12      | 7         | 22.41       | 22.50          | 22.58        | 23                  |
| 5                                                           | QPSK       | 12      | 13        | 22.24       | 22.52          | 22.58        |                     |
| 5                                                           | QPSK       | 25      | 0         | 22.06       | 22.23          | 22.36        |                     |
| 5                                                           | 16QAM      | 1       | 0         | 22.54       | 22.59          | 22.31        |                     |
| 5                                                           | 16QAM      | 1       | 12        | 22.71       | 22.27          | 22.64        | 23                  |
| 5                                                           | 16QAM      | 1       | 24        | 22.55       | 22.60          | 22.76        |                     |
| 5                                                           | 16QAM      | 12      | 0         | 21.99       | 22.02          | 22.23        |                     |
| 5                                                           | 16QAM      | 12      | 7         | 21.99       | 22.06          | 22.18        |                     |
| 5                                                           | 16QAM      | 12      | 13        | 21.90       | 22.15          | 22.18        | 23                  |
| 5                                                           | 16QAM      | 25      | 0         | 22.00       | 22.12          | 22.16        |                     |

| Band 25 (1900MHz Band)<br>Part 24E |            |         |           |             |                |              |                     |
|------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                           | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel                            |            |         |           | 26140       | 26365          | 26590        | 21                  |
| Frequency (MHz)                    |            |         |           | 1860        | 1882.5         | 1905         |                     |
| 20                                 | QPSK       | 1       | 0         | 20.43       | 20.45          | 20.38        |                     |
| 20                                 | QPSK       | 1       | 49        | 20.38       | 20.38          | 20.39        | 20                  |
| 20                                 | QPSK       | 1       | 99        | 20.39       | 20.34          | 20.44        |                     |
| 20                                 | QPSK       | 50      | 0         | 19.54       | 19.55          | 19.53        |                     |
| 20                                 | QPSK       | 50      | 24        | 19.39       | 19.32          | 19.29        | 20                  |
| 20                                 | QPSK       | 50      | 50        | 19.53       | 19.33          | 19.32        |                     |
| 20                                 | QPSK       | 100     | 0         | 19.32       | 19.39          | 19.33        |                     |
| 20                                 | 16QAM      | 1       | 0         | 19.49       | 19.32          | 19.39        | 20                  |
| 20                                 | 16QAM      | 1       | 49        | 19.37       | 19.32          | 19.27        |                     |
| 20                                 | 16QAM      | 1       | 99        | 19.29       | 19.39          | 19.37        |                     |
| 20                                 | 16QAM      | 50      | 0         | 19.39       | 19.32          | 19.62        | 20                  |
| 20                                 | 16QAM      | 50      | 24        | 19.60       | 19.29          | 19.39        |                     |
| 20                                 | 16QAM      | 50      | 50        | 19.66       | 19.75          | 19.36        |                     |
| 20                                 | 16QAM      | 100     | 0         | 19.59       | 19.74          | 19.43        | 21                  |
| Channel                            |            |         |           | 26115       | 26365          | 26615        |                     |
| Frequency (MHz)                    |            |         |           | 1857.5      | 1882.5         | 1907.5       |                     |
| 15                                 | QPSK       | 1       | 0         | 20.15       | 20.35          | 20.22        | 21                  |
| 15                                 | QPSK       | 1       | 37        | 20.33       | 20.39          | 20.22        |                     |
| 15                                 | QPSK       | 1       | 74        | 20.31       | 20.32          | 20.15        |                     |
| 15                                 | QPSK       | 36      | 0         | 19.49       | 19.34          | 19.54        | 20                  |
| 15                                 | QPSK       | 36      | 20        | 19.54       | 19.30          | 19.50        |                     |
| 15                                 | QPSK       | 36      | 39        | 19.57       | 19.29          | 19.53        |                     |
| 15                                 | QPSK       | 75      | 0         | 19.59       | 19.32          | 19.56        | 20                  |
| 15                                 | 16QAM      | 1       | 0         | 19.40       | 19.69          | 19.34        |                     |
| 15                                 | 16QAM      | 1       | 37        | 19.57       | 19.26          | 19.40        |                     |
| 15                                 | 16QAM      | 1       | 74        | 19.49       | 19.33          | 19.24        | 20                  |
| 15                                 | 16QAM      | 36      | 0         | 19.56       | 19.23          | 19.43        |                     |
| 15                                 | 16QAM      | 36      | 20        | 19.50       | 19.19          | 19.39        |                     |
| 15                                 | 16QAM      | 36      | 39        | 19.63       | 19.50          | 19.43        | 20                  |
| 15                                 | 16QAM      | 75      | 0         | 19.64       | 19.21          | 19.43        |                     |
| Channel                            |            |         |           | 26090       | 26365          | 26640        | 21                  |
| Frequency (MHz)                    |            |         |           | 1855        | 1882.5         | 1910         |                     |
| 10                                 | QPSK       | 1       | 0         | 20.24       | 20.32          | 20.20        |                     |
| 10                                 | QPSK       | 1       | 25        | 20.29       | 20.19          | 20.15        | 20                  |
| 10                                 | QPSK       | 1       | 49        | 20.16       | 20.39          | 20.39        |                     |
| 10                                 | QPSK       | 25      | 0         | 19.54       | 19.42          | 19.38        |                     |
| 10                                 | QPSK       | 25      | 12        | 19.53       | 19.31          | 19.38        | 20                  |
| 10                                 | QPSK       | 25      | 25        | 19.62       | 19.26          | 19.42        |                     |
| 10                                 | QPSK       | 50      | 0         | 19.66       | 19.34          | 19.40        |                     |
| 10                                 | 16QAM      | 1       | 0         | 19.01       | 19.16          | 19.41        | 20                  |
| 10                                 | 16QAM      | 1       | 25        | 19.10       | 19.31          | 19.24        |                     |
| 10                                 | 16QAM      | 1       | 49        | 19.06       | 19.23          | 19.37        |                     |
| 10                                 | 16QAM      | 25      | 0         | 19.09       | 19.37          | 19.55        | 20                  |
| 10                                 | 16QAM      | 25      | 12        | 19.06       | 19.23          | 19.49        |                     |
| 10                                 | 16QAM      | 25      | 25        | 19.13       | 19.35          | 19.20        |                     |
| 10                                 | 16QAM      | 50      | 0         | 19.09       | 19.33          | 19.51        | 21                  |
| Channel                            |            |         |           | 26065       | 26365          | 26665        |                     |
| Frequency (MHz)                    |            |         |           | 1852.5      | 1882.5         | 1912.5       |                     |
| 5                                  | QPSK       | 1       | 0         | 20.09       | 20.32          | 20.29        | 21                  |
| 5                                  | QPSK       | 1       | 12        | 20.24       | 20.19          | 20.32        |                     |
| 5                                  | QPSK       | 1       | 24        | 20.15       | 20.29          | 20.02        |                     |
| 5                                  | QPSK       | 12      | 0         | 19.47       | 19.51          | 19.60        | 20                  |
| 5                                  | QPSK       | 12      | 7         | 19.60       | 19.36          | 19.66        |                     |
| 5                                  | QPSK       | 12      | 13        | 19.60       | 19.58          | 19.72        |                     |
| 5                                  | QPSK       | 25      | 0         | 19.61       | 19.59          | 19.74        | 20                  |
| 5                                  | 16QAM      | 1       | 0         | 19.44       | 19.60          | 19.29        |                     |
| 5                                  | 16QAM      | 1       | 12        | 19.61       | 19.77          | 19.45        |                     |
| 5                                  | 16QAM      | 1       | 24        | 19.47       | 19.58          | 19.30        | 20                  |
| 5                                  | 16QAM      | 12      | 0         | 19.24       | 19.24          | 19.42        |                     |
| 5                                  | 16QAM      | 12      | 7         | 19.19       | 19.34          | 19.53        |                     |
| 5                                  | 16QAM      | 12      | 13        | 19.32       | 19.24          | 19.46        | 20                  |
| 5                                  | 16QAM      | 25      | 0         | 19.30       | 18.90          | 19.00        |                     |
| Channel                            |            |         |           | 26055       | 26365          | 26675        | 21                  |
| Frequency (MHz)                    |            |         |           | 1851.5      | 1882.5         | 1913.5       |                     |
| 3                                  | QPSK       | 1       | 0         | 20.05       | 20.08          | 20.06        |                     |
| 3                                  | QPSK       | 1       | 8         | 20.05       | 20.07          | 20.03        | 20                  |
| 3                                  | QPSK       | 1       | 14        | 20.04       | 20.02          | 19.95        |                     |
| 3                                  | QPSK       | 8       | 0         | 18.75       | 18.83          | 18.92        |                     |
| 3                                  | QPSK       | 8       | 4         | 18.82       | 18.81          | 18.90        | 20                  |
| 3                                  | QPSK       | 8       | 7         | 18.74       | 18.90          | 18.88        |                     |
| 3                                  | QPSK       | 15      | 0         | 18.81       | 18.78          | 18.88        |                     |
| 3                                  | 16QAM      | 1       | 0         | 18.46       | 18.82          | 18.61        | 20                  |
| 3                                  | 16QAM      | 1       | 8         | 18.52       | 18.67          | 18.55        |                     |
| 3                                  | 16QAM      | 1       | 14        | 18.62       | 18.44          | 18.45        |                     |
| 3                                  | 16QAM      | 8       | 0         | 19.05       | 19.02          | 18.95        | 20                  |
| 3                                  | 16QAM      | 8       | 4         | 19.06       | 18.95          | 19.07        |                     |
| 3                                  | 16QAM      | 8       | 7         | 19.03       | 19.02          | 19.06        |                     |
| 3                                  | 16QAM      | 15      | 0         | 18.82       | 18.86          | 18.88        | 21                  |
| Channel                            |            |         |           | 26047       | 26365          | 26683        |                     |
| Frequency (MHz)                    |            |         |           | 1850.7      | 1882.5         | 1914.3       |                     |
| 1.4                                | QPSK       | 1       | 0         | 19.93       | 20.05          | 20.04        | 21                  |
| 1.4                                | QPSK       | 1       | 3         | 20.09       | 20.04          | 20.09        |                     |
| 1.4                                | QPSK       | 1       | 5         | 20.05       | 20.03          | 20.10        |                     |
| 1.4                                | QPSK       | 3       | 0         | 20.25       | 20.07          | 20.06        | 20                  |
| 1.4                                | QPSK       | 3       | 1         | 20.11       | 20.13          | 20.10        |                     |
| 1.4                                | QPSK       | 3       | 3         | 20.06       | 20.09          | 20.06        |                     |
| 1.4                                | QPSK       | 6       | 0         | 19.18       | 19.30          | 19.26        | 20                  |
| 1.4                                | 16QAM      | 1       | 0         | 19.19       | 19.21          | 19.23        |                     |
| 1.4                                | 16QAM      | 1       | 3         | 19.36       | 19.31          | 19.32        |                     |
| 1.4                                | 16QAM      | 1       | 5         | 19.32       | 19.30          | 19.26        | 20                  |
| 1.4                                | 16QAM      | 3       | 0         | 19.06       | 19.03          | 19.06        |                     |
| 1.4                                | 16QAM      | 3       | 1         | 19.20       | 19.25          | 19.09        |                     |
| 1.4                                | 16QAM      | 3       | 3         | 19.15       | 19.12          | 19.17        | 20                  |
| 1.4                                | 16QAM      | 6       | 0         | 19.16       | 19.12          | 19.14        |                     |

| Band 26 for FCC<br>(only on channel required) |            |         |           |             |                |              |                     |
|-----------------------------------------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]                                      | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dbm) |
| Channel                                       |            |         |           | 26765       | 26865          | 26965        | 24                  |
| Frequency (MHz)                               |            |         |           | 821.5       | 831.5          | 841.5        |                     |
| 15                                            | QPSK       | 1       | 0         | 23.14       | 23.18          | 23.15        |                     |
| 15                                            | QPSK       | 1       | 37        | 23.12       | 23.09          | 23.15        | 23                  |
| 15                                            | QPSK       | 1       | 74        | 23.10       | 23.08          | 23.10        |                     |
| 15                                            | QPSK       | 36      | 0         | 22.46       | 22.54          | 22.42        |                     |
| 15                                            | QPSK       | 36      | 20        | 22.35       | 22.29          | 22.14        | 23                  |
| 15                                            | QPSK       | 36      | 39        | 22.37       | 22.16          | 22.22        |                     |
| 15                                            | QPSK       | 75      | 0         | 22.43       | 22.17          | 22.24        |                     |
| 15                                            | 16QAM      | 1       | 0         | 22.15       | 22.30          | 22.58        | 23                  |
| 15                                            | 16QAM      | 1       | 37        | 22.11       | 22.22          | 22.36        |                     |
| 15                                            | 16QAM      | 1       | 74        | 22.26       | 22.15          | 22.16        |                     |
| 15                                            | 16QAM      | 36      | 0         | 22.26       | 22.12          | 22.15        | 23                  |
| 15                                            | 16QAM      | 36      | 20        | 22.21       | 22.01          | 22.16        |                     |
| 15                                            | 16QAM      | 36      | 39        | 22.28       | 22.08          | 22.16        |                     |
| 15                                            | 16QAM      | 75      | 0         | 22.16       | 22.18          | 22.18        | 24                  |
| Channel                                       |            |         |           | 26740       | 26865          | 26990        |                     |
| Frequency (MHz)                               |            |         |           | 819         | 831.5          | 844          |                     |
| 10                                            | QPSK       | 1       | 0         | 23.06       | 23.10          | 23.07        | 24                  |
| 10                                            | QPSK       | 1       | 25        | 23.09       | 23.08          | 23.01        |                     |
| 10                                            | QPSK       | 1       | 49        | 22.95       | 23.08          | 23.00        |                     |
| 10                                            | QPSK       | 25      | 0         | 22.48       | 22.29          | 22.15        | 23                  |
| 10                                            | QPSK       | 25      | 12        | 22.44       | 22.26          | 22.05        |                     |
| 10                                            | QPSK       | 25      | 25        | 22.43       | 22.27          | 22.12        |                     |
| 10                                            | QPSK       | 50      | 0         | 22.30       | 22.18          | 22.00        | 23                  |
| 10                                            | 16QAM      | 1       | 0         | 22.02       | 22.34          | 22.11        |                     |
| 10                                            | 16QAM      | 1       | 25        | 22.23       | 22.32          | 22.37        |                     |
| 10                                            | 16QAM      | 1       | 49        | 22.17       | 22.16          | 22.14        | 23                  |
| 10                                            | 16QAM      | 25      | 0         | 22.18       | 22.32          | 22.61        |                     |
| 10                                            | 16QAM      | 25      | 12        | 22.19       | 22.35          | 22.43        |                     |
| 10                                            | 16QAM      | 25      | 25        | 22.24       | 22.12          | 22.18        | 23                  |
| 10                                            | 16QAM      | 50      | 0         | 22.55       | 22.42          | 22.44        |                     |
| Channel                                       |            |         |           | 26715       | 26865          | 27015        | 24                  |
| Frequency (MHz)                               |            |         |           | 816.5       | 831.5          | 846.5        |                     |
| 5                                             | QPSK       | 1       | 0         | 23.05       | 23.10          | 23.06        |                     |
| 5                                             | QPSK       | 1       | 12        | 23.00       | 23.04          | 23.06        | 23                  |
| 5                                             | QPSK       | 1       | 24        | 22.96       | 23.08          | 23.08        |                     |
| 5                                             | QPSK       | 12      | 0         | 22.42       | 22.24          | 22.13        |                     |
| 5                                             | QPSK       | 12      | 7         | 22.52       | 22.23          | 22.23        | 23                  |
| 5                                             | QPSK       | 12      | 13        | 22.41       | 22.18          | 22.12        |                     |
| 5                                             | QPSK       | 25      | 0         | 22.45       | 22.26          | 22.31        |                     |
| 5                                             | 16QAM      | 1       | 0         | 22.16       | 22.16          | 22.17        | 23                  |
| 5                                             | 16QAM      | 1       | 12        | 22.20       | 22.10          | 22.07        |                     |
| 5                                             | 16QAM      | 1       | 24        | 22.25       | 22.25          | 22.30        |                     |
| 5                                             | 16QAM      | 12      | 0         | 22.53       | 22.35          | 22.33        | 23                  |
| 5                                             | 16QAM      | 12      | 7         | 22.38       | 22.40          | 22.09        |                     |
| 5                                             | 16QAM      | 12      | 13        | 22.50       | 22.35          | 22.14        |                     |
| 5                                             | 16QAM      | 25      | 0         | 22.05       | 22.19          | 22.16        | 24                  |
| Channel                                       |            |         |           | 26705       | 26865          | 27025        |                     |
| Frequency (MHz)                               |            |         |           | 815.5       | 831.5          | 847.5        |                     |
| 3                                             | QPSK       | 1       | 0         | 23.09       | 23.06          | 23.11        | 24                  |
| 3                                             | QPSK       | 1       | 8         | 23.00       | 23.08          | 23.00        |                     |
| 3                                             | QPSK       | 1       | 14        | 23.05       | 23.01          | 23.07        |                     |
| 3                                             | QPSK       | 8       | 0         | 22.32       | 22.16          | 22.35        | 23                  |
| 3                                             | QPSK       | 8       | 4         | 22.49       | 22.23          | 22.12        |                     |
| 3                                             | QPSK       | 8       | 7         | 22.49       | 22.22          | 22.33        |                     |
| 3                                             | QPSK       | 15      | 0         | 22.34       | 22.14          | 22.24        | 23                  |
| 3                                             | 16QAM      | 1       | 0         | 22.45       | 22.39          | 22.40        |                     |
| 3                                             | 16QAM      | 1       | 8         | 22.44       | 22.33          | 22.36        |                     |
| 3                                             | 16QAM      | 1       | 14        | 22.42       | 22.27          | 22.27        | 23                  |
| 3                                             | 16QAM      | 8       | 0         | 22.51       | 22.14          | 22.21        |                     |
| 3                                             | 16QAM      | 8       | 4         | 22.45       | 22.12          | 22.16        |                     |
| 3                                             | 16QAM      | 8       | 7         | 22.21       | 22.18          | 22.12        | 23                  |
| 3                                             | 16QAM      | 15      | 0         | 22.28       | 22.15          | 22.25        |                     |
| Channel                                       |            |         |           | 26697       | 26865          | 27033        | 24                  |
| Frequency (MHz)                               |            |         |           | 814.7       | 831.5          | 848.3        |                     |
| 1.4                                           | QPSK       | 1       | 0         | 22.96       | 23.06          | 23.06        |                     |
| 1.4                                           | QPSK       | 1       | 3         | 22.95       | 23.06          | 22.98        | 24                  |
| 1.4                                           | QPSK       | 1       | 5         | 22.95       | 22.97          | 22.97        |                     |
| 1.4                                           | QPSK       | 3       | 0         | 22.73       | 22.97          | 22.99        |                     |
| 1.4                                           | QPSK       | 3       | 1         | 23.00       | 23.00          | 23.05        | 23                  |
| 1.4                                           | QPSK       | 3       | 3         | 23.00       | 23.06          | 22.78        |                     |
| 1.4                                           | QPSK       | 6       | 0         | 22.10       | 22.32          | 22.35        |                     |
| 1.4                                           | 16QAM      | 1       | 0         | 22.15       | 22.22          | 22.22        | 23                  |
| 1.4                                           | 16QAM      | 1       | 3         | 22.22       | 22.16          | 22.16        |                     |
| 1.4                                           | 16QAM      | 1       | 5         | 22.31       | 22.45          | 22.26        |                     |
| 1.4                                           | 16QAM      | 3       | 0         | 22.29       | 22.05          | 22.30        | 23                  |
| 1.4                                           | 16QAM      | 3       | 1         | 22.29       | 22.08          | 22.21        |                     |
| 1.4                                           | 16QAM      | 3       | 3         | 22.29       | 22.06          | 22.02        |                     |
| 1.4                                           | 16QAM      | 6       | 0         | 22.34       | 22.31          | 22.29        | 23                  |

| Band 66         |            |         |           |             |                |              |                     |
|-----------------|------------|---------|-----------|-------------|----------------|--------------|---------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Channel | Middle Channel | High Channel | Tune-up limit (dBm) |
| Channel         |            |         |           | 132072      | 132322         | 132572       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1720        | 1745           | 1770         |                     |
| 20              | QPSK       | 1       | 0         | 19.32       | 19.38          | 19.36        | 20                  |
| 20              | QPSK       | 1       | 49        | 19.17       | 19.16          | 19.12        |                     |
| 20              | QPSK       | 1       | 99        | 19.10       | 19.09          | 19.12        |                     |
| 20              | QPSK       | 50      | 0         | 18.55       | 18.62          | 18.58        | 19                  |
| 20              | QPSK       | 50      | 24        | 18.24       | 18.26          | 18.39        |                     |
| 20              | QPSK       | 50      | 50        | 18.28       | 18.36          | 18.24        |                     |
| 20              | QPSK       | 100     | 0         | 18.26       | 18.31          | 18.18        | 19                  |
| 20              | 16QAM      | 1       | 0         | 18.31       | 18.07          | 18.35        |                     |
| 20              | 16QAM      | 1       | 49        | 18.36       | 18.10          | 18.16        |                     |
| 20              | 16QAM      | 1       | 99        | 18.36       | 18.54          | 18.33        | 19                  |
| 20              | 16QAM      | 50      | 0         | 18.48       | 18.45          | 18.42        |                     |
| 20              | 16QAM      | 50      | 24        | 18.37       | 18.37          | 18.38        |                     |
| 20              | 16QAM      | 50      | 50        | 18.34       | 18.26          | 18.22        | 19                  |
| 20              | 16QAM      | 100     | 0         | 18.30       | 18.33          | 18.39        |                     |
| Channel         |            |         |           | 132047      | 132322         | 132597       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5      | 1745           | 1772.5       |                     |
| 15              | QPSK       | 1       | 0         | 19.06       | 19.10          | 19.08        | 20                  |
| 15              | QPSK       | 1       | 37        | 19.20       | 19.06          | 19.04        |                     |
| 15              | QPSK       | 1       | 74        | 19.04       | 19.00          | 18.98        |                     |
| 15              | QPSK       | 36      | 0         | 18.25       | 18.22          | 18.26        | 19                  |
| 15              | QPSK       | 36      | 20        | 18.25       | 18.17          | 18.27        |                     |
| 15              | QPSK       | 36      | 39        | 18.11       | 18.16          | 18.13        |                     |
| 15              | QPSK       | 75      | 0         | 18.20       | 18.24          | 18.17        | 19                  |
| 15              | 16QAM      | 1       | 0         | 18.19       | 18.06          | 18.36        |                     |
| 15              | 16QAM      | 1       | 37        | 18.06       | 18.36          | 18.29        |                     |
| 15              | 16QAM      | 1       | 74        | 18.16       | 18.06          | 18.06        | 19                  |
| 15              | 16QAM      | 36      | 0         | 18.37       | 18.37          | 18.28        |                     |
| 15              | 16QAM      | 36      | 20        | 18.40       | 18.39          | 18.45        |                     |
| 15              | 16QAM      | 36      | 39        | 18.32       | 18.47          | 18.41        | 19                  |
| 15              | 16QAM      | 75      | 0         | 18.42       | 18.40          | 18.36        |                     |
| Channel         |            |         |           | 132022      | 132322         | 132622       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715        | 1745           | 1775         |                     |
| 10              | QPSK       | 1       | 0         | 19.04       | 19.04          | 19.05        | 20                  |
| 10              | QPSK       | 1       | 25        | 18.94       | 18.92          | 19.00        |                     |
| 10              | QPSK       | 1       | 49        | 19.08       | 18.96          | 18.86        |                     |
| 10              | QPSK       | 25      | 0         | 18.51       | 18.44          | 18.51        | 19                  |
| 10              | QPSK       | 25      | 12        | 18.48       | 18.67          | 18.45        |                     |
| 10              | QPSK       | 25      | 25        | 18.49       | 18.45          | 18.37        |                     |
| 10              | QPSK       | 50      | 0         | 18.57       | 18.42          | 18.61        | 19                  |
| 10              | 16QAM      | 1       | 0         | 18.49       | 18.49          | 18.69        |                     |
| 10              | 16QAM      | 1       | 25        | 18.49       | 18.58          | 18.70        |                     |
| 10              | 16QAM      | 1       | 49        | 18.32       | 18.52          | 18.40        | 19                  |
| 10              | 16QAM      | 25      | 0         | 18.33       | 18.50          | 18.38        |                     |
| 10              | 16QAM      | 25      | 12        | 18.32       | 18.52          | 18.43        |                     |
| 10              | 16QAM      | 25      | 25        | 18.23       | 18.28          | 18.28        | 19                  |
| 10              | 16QAM      | 50      | 0         | 18.39       | 18.43          | 18.44        |                     |
| Channel         |            |         |           | 131987      | 132322         | 132647       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5      | 1745           | 1777.5       |                     |
| 5               | QPSK       | 1       | 0         | 18.93       | 18.96          | 19.01        | 20                  |
| 5               | QPSK       | 1       | 12        | 18.96       | 18.96          | 18.95        |                     |
| 5               | QPSK       | 1       | 24        | 19.04       | 18.94          | 19.00        |                     |
| 5               | QPSK       | 12      | 0         | 18.20       | 18.22          | 18.18        | 19                  |
| 5               | QPSK       | 12      | 7         | 18.22       | 18.30          | 18.23        |                     |
| 5               | QPSK       | 12      | 13        | 18.13       | 18.19          | 18.20        |                     |
| 5               | QPSK       | 25      | 0         | 18.23       | 18.24          | 18.23        | 19                  |
| 5               | 16QAM      | 1       | 0         | 18.72       | 18.41          | 18.42        |                     |
| 5               | 16QAM      | 1       | 12        | 18.35       | 18.64          | 18.59        |                     |
| 5               | 16QAM      | 1       | 24        | 18.47       | 18.36          | 18.71        | 19                  |
| 5               | 16QAM      | 12      | 0         | 18.36       | 18.47          | 18.43        |                     |
| 5               | 16QAM      | 12      | 7         | 18.53       | 18.45          | 18.57        |                     |
| 5               | 16QAM      | 12      | 13        | 18.44       | 18.38          | 18.45        | 19                  |
| 5               | 16QAM      | 25      | 0         | 18.45       | 18.47          | 18.39        |                     |
| Channel         |            |         |           | 131987      | 132322         | 132657       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5      | 1745           | 1778.5       |                     |
| 3               | QPSK       | 1       | 0         | 19.00       | 18.91          | 18.90        | 20                  |
| 3               | QPSK       | 1       | 8         | 18.87       | 18.88          | 18.96        |                     |
| 3               | QPSK       | 1       | 14        | 18.78       | 18.59          | 18.89        |                     |
| 3               | QPSK       | 8       | 0         | 18.46       | 18.43          | 18.47        | 19                  |
| 3               | QPSK       | 8       | 4         | 18.46       | 18.38          | 18.48        |                     |
| 3               | QPSK       | 8       | 7         | 18.32       | 18.37          | 18.34        |                     |
| 3               | QPSK       | 15      | 0         | 18.41       | 18.45          | 18.38        | 19                  |
| 3               | 16QAM      | 1       | 0         | 18.10       | 18.51          | 18.27        |                     |
| 3               | 16QAM      | 1       | 8         | 18.43       | 18.37          | 18.36        |                     |
| 3               | 16QAM      | 1       | 14        | 18.47       | 18.36          | 18.06        | 19                  |
| 3               | 16QAM      | 8       | 0         | 18.28       | 18.28          | 18.19        |                     |
| 3               | 16QAM      | 8       | 4         | 18.31       | 18.30          | 18.36        |                     |
| 3               | 16QAM      | 8       | 7         | 18.23       | 18.38          | 18.32        | 19                  |
| 3               | 16QAM      | 15      | 0         | 18.33       | 18.31          | 18.27        |                     |
| Channel         |            |         |           | 131979      | 132322         | 132695       | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7      | 1745           | 1779.3       |                     |
| 1.4             | QPSK       | 1       | 0         | 18.94       | 18.85          | 18.86        | 20                  |
| 1.4             | QPSK       | 1       | 3         | 19.00       | 19.02          | 19.02        |                     |
| 1.4             | QPSK       | 1       | 5         | 18.92       | 18.80          | 18.96        |                     |
| 1.4             | QPSK       | 3       | 0         | 18.91       | 18.84          | 18.91        | 19                  |
| 1.4             | QPSK       | 3       | 1         | 18.88       | 18.94          | 18.85        |                     |
| 1.4             | QPSK       | 3       | 3         | 18.89       | 18.85          | 18.77        |                     |
| 1.4             | QPSK       | 6       | 0         | 18.49       | 18.34          | 18.53        | 19                  |
| 1.4             | 16QAM      | 1       | 0         | 18.41       | 18.41          | 18.61        |                     |
| 1.4             | 16QAM      | 1       | 3         | 18.41       | 18.50          | 18.62        |                     |
| 1.4             | 16QAM      | 1       | 5         | 18.24       | 18.44          | 18.32        | 19                  |
| 1.4             | 16QAM      | 3       | 0         | 18.19       | 18.16          | 18.42        |                     |
| 1.4             | 16QAM      | 3       | 1         | 18.28       | 18.18          | 18.30        |                     |
| 1.4             | 16QAM      | 3       | 3         | 18.29       | 18.30          | 18.24        | 19                  |
| 1.4             | 16QAM      | 6       | 0         | 18.20       | 18.10          | 18.20        |                     |

# Band 41 (2496~2690MHz)

| BW [MHz]        | Modulation | RB Size | RB Offset | Low Channel | Middle Low Channel | Middle Channel | Middle High Channel | High Channel | Tune-up limit (dBm) |
|-----------------|------------|---------|-----------|-------------|--------------------|----------------|---------------------|--------------|---------------------|
| Channel         |            |         |           | 39750       | 40185              | 40620          | 41055               | 41490        |                     |
| Frequency (MHz) |            |         |           | 2506        | 2549.5             | 2593           | 2636.5              | 2680         |                     |
| 20              | QPSK       | 1       | 0         | 19.09       | 19.19              | 19.21          | 19.14               | 19.15        | 20                  |
| 20              | QPSK       | 1       | 49        | 19.05       | 19.14              | 19.14          | 19.15               | 19.15        |                     |
| 20              | QPSK       | 1       | 99        | 18.99       | 19.15              | 19.10          | 19.20               | 18.95        |                     |
| 20              | QPSK       | 50      | 0         | 18.05       | 18.30              | 18.31          | 18.29               | 18.24        |                     |
| 20              | QPSK       | 50      | 24        | 18.05       | 18.15              | 18.08          | 18.05               | 18.05        | 19                  |
| 20              | QPSK       | 50      | 50        | 18.08       | 18.29              | 18.09          | 18.08               | 18.15        |                     |
| 20              | QPSK       | 100     | 0         | 18.05       | 18.08              | 18.15          | 18.09               | 18.05        |                     |
| 20              | 16QAM      | 1       | 0         | 18.09       | 18.25              | 18.08          | 18.15               | 18.05        |                     |
| 20              | 16QAM      | 1       | 49        | 18.08       | 18.13              | 18.08          | 18.03               | 18.05        | 19                  |
| 20              | 16QAM      | 1       | 99        | 18.15       | 18.05              | 18.15          | 18.13               | 18.15        |                     |
| 20              | 16QAM      | 50      | 0         | 18.06       | 18.15              | 18.08          | 18.38               | 18.05        |                     |
| 20              | 16QAM      | 50      | 24        | 18.04       | 18.36              | 18.05          | 18.15               | 18.05        |                     |
| 20              | 16QAM      | 50      | 50        | 18.10       | 18.42              | 18.51          | 18.12               | 18.15        | 19                  |
| 20              | 16QAM      | 100     | 0         | 18.04       | 18.35              | 18.50          | 18.19               | 18.08        |                     |
| Channel         |            |         |           | 39725       | 40173              | 40620          | 41068               | 41515        | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5      | 2548.3             | 2593           | 2637.8              | 2682.5       |                     |
| 15              | QPSK       | 1       | 0         | 18.75       | 18.91              | 19.11          | 18.98               | 18.97        | 20                  |
| 15              | QPSK       | 1       | 37        | 18.74       | 19.09              | 19.15          | 18.98               | 19.08        |                     |
| 15              | QPSK       | 1       | 74        | 18.74       | 19.07              | 19.08          | 18.91               | 18.88        |                     |
| 15              | QPSK       | 36      | 0         | 18.13       | 18.25              | 18.10          | 18.30               | 18.91        |                     |
| 15              | QPSK       | 36      | 20        | 18.18       | 18.30              | 18.06          | 18.26               | 18.98        | 19                  |
| 15              | QPSK       | 36      | 39        | 18.34       | 18.33              | 18.05          | 18.29               | 18.93        |                     |
| 15              | QPSK       | 75      | 0         | 18.12       | 18.35              | 18.08          | 18.32               | 18.90        |                     |
| 15              | 16QAM      | 1       | 0         | 18.06       | 18.16              | 18.45          | 18.10               | 18.12        |                     |
| 15              | 16QAM      | 1       | 37        | 18.27       | 18.33              | 18.02          | 18.16               | 18.21        | 19                  |
| 15              | 16QAM      | 1       | 74        | 18.23       | 18.25              | 17.59          | 18.00               | 18.14        |                     |
| 15              | 16QAM      | 36      | 0         | 18.10       | 18.32              | 17.99          | 18.19               | 18.59        |                     |
| 15              | 16QAM      | 36      | 20        | 18.15       | 18.26              | 17.95          | 18.15               | 18.61        |                     |
| 15              | 16QAM      | 36      | 39        | 18.22       | 18.39              | 18.49          | 18.19               | 18.37        | 19                  |
| 15              | 16QAM      | 75      | 0         | 18.13       | 18.40              | 17.97          | 18.19               | 17.97        |                     |
| Channel         |            |         |           | 39700       | 40160              | 40620          | 41080               | 41540        | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501        | 2547               | 2593           | 2639                | 2685         |                     |
| 10              | QPSK       | 1       | 0         | 18.79       | 19.00              | 19.08          | 18.96               | 18.95        | 20                  |
| 10              | QPSK       | 1       | 25        | 18.99       | 19.05              | 18.95          | 18.91               | 18.90        |                     |
| 10              | QPSK       | 1       | 49        | 18.76       | 18.92              | 19.15          | 19.15               | 18.91        |                     |
| 10              | QPSK       | 25      | 0         | 18.09       | 18.52              | 18.40          | 18.36               | 18.37        |                     |
| 10              | QPSK       | 25      | 12        | 18.17       | 18.51              | 18.29          | 18.36               | 18.37        | 19                  |
| 10              | QPSK       | 25      | 25        | 18.21       | 18.60              | 18.24          | 18.40               | 18.73        |                     |
| 10              | QPSK       | 50      | 0         | 18.26       | 18.64              | 18.32          | 18.38               | 17.97        |                     |
| 10              | 16QAM      | 1       | 0         | 18.12       | 17.99              | 18.14          | 18.39               | 18.17        |                     |
| 10              | 16QAM      | 1       | 25        | 18.30       | 18.08              | 18.29          | 18.22               | 18.21        | 19                  |
| 10              | 16QAM      | 1       | 49        | 18.16       | 18.04              | 18.21          | 18.35               | 18.36        |                     |
| 10              | 16QAM      | 25      | 0         | 18.16       | 18.07              | 18.35          | 18.53               | 18.02        |                     |
| 10              | 16QAM      | 25      | 12        | 18.29       | 18.04              | 18.21          | 18.47               | 17.78        |                     |
| 10              | 16QAM      | 25      | 25        | 18.26       | 18.11              | 18.33          | 18.60               | 18.29        | 19                  |
| 10              | 16QAM      | 50      | 0         | 18.24       | 18.07              | 18.31          | 18.49               | 18.05        |                     |
| Channel         |            |         |           | 39675       | 40148              | 40620          | 41093               | 41565        | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5      | 2545.8             | 2593           | 2640.30             | 2687.5       |                     |
| 5               | QPSK       | 1       | 0         | 18.83       | 18.92              | 19.15          | 19.12               | 18.93        | 20                  |
| 5               | QPSK       | 1       | 12        | 18.82       | 19.07              | 19.02          | 19.15               | 18.97        |                     |
| 5               | QPSK       | 1       | 24        | 18.95       | 18.98              | 19.12          | 18.85               | 18.98        |                     |
| 5               | QPSK       | 12      | 0         | 18.18       | 18.52              | 18.56          | 18.65               | 18.16        |                     |
| 5               | QPSK       | 12      | 7         | 18.26       | 18.65              | 18.41          | 18.71               | 18.38        | 19                  |
| 5               | QPSK       | 12      | 13        | 18.20       | 18.65              | 18.63          | 18.77               | 18.44        |                     |
| 5               | QPSK       | 25      | 0         | 18.23       | 18.66              | 18.64          | 18.79               | 18.37        |                     |
| 5               | 16QAM      | 1       | 0         | 18.67       | 18.49              | 18.65          | 18.34               | 18.28        |                     |
| 5               | 16QAM      | 1       | 12        | 18.28       | 18.66              | 18.82          | 18.50               | 18.18        | 19                  |
| 5               | 16QAM      | 1       | 24        | 18.14       | 18.52              | 18.63          | 18.35               | 18.44        |                     |
| 5               | 16QAM      | 12      | 0         | 18.12       | 18.07              | 18.29          | 18.47               | 18.24        |                     |
| 5               | 16QAM      | 12      | 7         | 18.24       | 18.02              | 18.39          | 18.58               | 18.37        |                     |
| 5               | 16QAM      | 12      | 13        | 18.30       | 18.15              | 18.29          | 18.51               | 18.16        | 19                  |
| 5               | 16QAM      | 25      | 0         | 18.22       | 18.03              | 18.37          | 18.58               | 18.14        |                     |



2.4GHz WLAN ANT 1

| 2.4GHz WLAN<br>ANT 1 | Mode              | Channel | Frequency<br>(MHz) | Average power<br>(dBm) | Tune-Up<br>Limit | Power Setting | Duty Cycle % |
|----------------------|-------------------|---------|--------------------|------------------------|------------------|---------------|--------------|
|                      | 802.11b 1Mbps     | CH 1    | 2412               | 16.22                  | 17.00            | 14.00         | 97.62        |
|                      |                   | CH 7    | 2442               | 15.92                  | 16.50            | 14.00         |              |
|                      |                   | CH 13   | 2472               | 16.53                  | 17.00            | 14.00         |              |
|                      | 802.11g 6Mbps     | CH 1    | 2412               | 11.45                  | 12.00            | 11.50         | 88.14        |
|                      |                   | CH 7    | 2442               | 11.24                  | 12.00            | 11.50         |              |
|                      |                   | CH 13   | 2472               | 12.09                  | 13.00            | 11.50         |              |
|                      | 802.11n-HT20 MCS0 | CH 1    | 2412               | 11.63                  | 12.00            | 11.50         | 86.44        |
|                      |                   | CH 7    | 2442               | 11.42                  | 12.00            | 11.50         |              |
|                      |                   | CH 13   | 2472               | 12.20                  | 13.00            | 11.50         |              |
|                      | 802.11n-HT40 MCS0 | CH 1    | 2412               | 11.82                  | 12.50            | 11.50         | 86.44        |
|                      |                   | CH 7    | 2442               | 11.14                  | 12.00            | 11.50         |              |
|                      |                   | CH 13   | 2472               | 11.91                  | 12.50            | 11.50         |              |

| Mode          | Channel | Frequency<br>(MHz) | Average power (dBm) |       |       |
|---------------|---------|--------------------|---------------------|-------|-------|
|               |         |                    | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402               | -1.56               | -3.50 | -3.49 |
|               | CH 39   | 2441               | 0.19                | -1.62 | -1.68 |
|               | CH 78   | 2480               | -1.14               | -3.34 | -3.40 |
| Tune-up Limit |         |                    | 0.5                 | 0.5   | 0.5   |
| Duty Cycle %  |         |                    | 76.8                | 76.8  | 76.91 |

| Mode          | Channel | Frequency<br>(MHz) | Average power (dBm) |
|---------------|---------|--------------------|---------------------|
|               |         |                    | GFSK                |
| LE            | CH 00   | 2402               | -2.83               |
|               | CH 19   | 2440               | -1.13               |
|               | CH 39   | 2480               | -2.60               |
| Tune-up Limit |         |                    | 0.5                 |
| Duty Cycle %  |         |                    | 62.2                |